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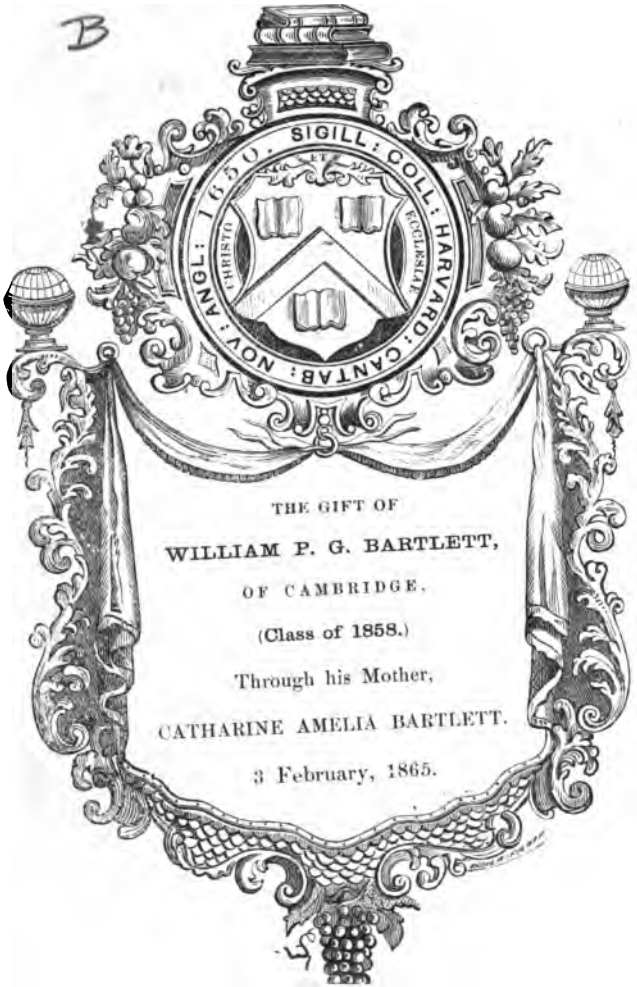

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NEW

MATHEMATICAL TABLES,

CONTAINING THE

FACTORS, SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS, RECIPROCALS, AND HYPERBOLIC LOGARITHMS,

OF ALL

NUMBERS FROM 1 TO 10000;

TABLES OF POWERS AND PRIME NUMBERS;

AN EXTENSIVE

TABLE OF FORMULÆ,

OR

GENERAL SYNOPSIS OF THE MOST IMPORTANT PARTICULARS RELATING TO THE DOCTRINES

OF

EQUATIONS, SERIES, FLUXIONS, FLUENTS,

&c. &c. &c.

BY PETER BARLOW,

OF THE ROYAL MILITARY ACADEMY.

LONDON:

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PREFACE.

IN presenting the following Mathematical Tables to the attention of the public, the far greater part of which are the result of laborious calculation, little need be said to prove that I have not had in view the accomplishment of any pecuniary object; as the time employed in the computation, the expense of publication, and the limited number of purchasers, which from the nature of the subject is to be apprehended, preclude every idea of adequate remuneration. And as little is to be expected of mathematical reputation; nothing more being requisite for the execution of such an undertaking, than a moderate skill in computation, and a persevering industry and attention; which are not precisely the qualifications a mathematician is most anxious to be thought to possess.

In fact, the only motive which prompted me to engage in this unprofitable task, was the utility that I conceived might result from my labour; and if I have succeeded in facilitating any of the more abstruse arithmetical calculations, and thereby rendered mathematical investigations more pleasant and easy, I have obtained the principal object I had in view.

The following introduction renders it unnecessary to enter, in this place, into any particulars relative to the uses and application of the tables, and I shall therefore merely observe, that as the first four tables, and more especially the second, third, and fourth, may be advantageously employed in the solution of numerical equations, I thought it proper to enter upon this subject at some length in the introductory chapter, and impartially to examine the merits of the different methods which have been proposed for this purpose; and I trust it will appear, from what is there stated, that many of the objections made to Newton's method, and others depending upon similar principles, are not well founded, or, at least, that their defects have been much over-rated, and the value of Lagrange's method, considered as a practical rule, as improperly estimated too highly.

Like the other works of this great master, his Treatise *de la Resolution des Equations Numeriques* undoubtedly displays very superior analytical talents; contains an elegant theory, and is worthy of its author. But at the same time, it is but justice to set its advantages and disadvantages in their proper light, and to refute, as far as is consistent with truth, the unfavourable representation of the merits of Newton's rule, drawn from a comparison of two methods, which in fact admit of no comparison, the one being wholly practical, while the other is little else than theoretical.

I shall only further remark, with regard to the table of formulæ, which has been collected with

great care, and which will be found to embrace all the principal branches of abstract mathematics susceptible of such an arrangement, that while it may form a convenient reference for mathematicians in general, it will be found more particularly useful to those whose occupation requires their frequent removal from place to place; such, for example, as military and civil engineers, who are of necessity often placed in situations where books of reference may not be at hand, and who will therefore, it is presumed, find a general synopsis of this kind, containing the results of investigations that would occupy many volumes, a valuable little companion of their travels.

With respect to the execution, it is shown in the introduction that the methods employed in the construction of the tables were such as nearly to preclude the possibility of error in the computations, and the same care has been taken in superintending the work through the press; for being well aware that the utility of the performance depended wholly upon its accuracy, I have been the more cautious of guarding it from an imperfection, which could not fail of depreciating its value in the estimation of the public.

Royal Military Academy, Woolwich,
JULY 1, 1814.

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ERRATA.

Introduction.

Page v. line 2 from the bottom, *for* 28, *read* 8.
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Tables.

Page 29, (No. 1698) *for* $2 \cdot 3 \cdot 253$, *read* $2 \cdot 3 \cdot 283$.
——— (No. 1730) *for* $2 \cdot 3 \cdot 172$, *read* $2 \cdot 5 \cdot 173$.
—— 42, (No. 2504) *for* $2^3 \cdot 139$, *read* $2^3 \cdot 313$.
—— 62, (No. 3711) *for* $3 \cdot 31237$, *read* $3 \cdot 1237$.
—— 64, (No. 3828) *for* 1129, *read* $11 \cdot 29$.
—— 67, (No. 3978) *for* $2 \cdot 3^2 \cdot 13 \cdot 11$, *read* $2 \cdot 3^2 \cdot 13 \cdot 17$.
—— 307, line 25, *for* 29, *read* 2g.

INTRODUCTION.

THE CONSTRUCTION OF THE TABLES.

1. AS the value of every description of mathematical tables depends almost entirely upon the accuracy of the several computations employed in their construction, and the care which is afterwards taken in superintending their progress through the press, I consider it an object of great importance to impress the reader with confidence on these points; and to convince him, beyond mere assertion and declaration, that every necessary and possible means have been employed, that could in any way tend to assure the accuracy of the following tables.

It is difficult for any one, who has not been engaged in similar computations, to form any correct idea of the immense labour of an undertaking of this kind, and the extreme care and attention that is necessary after the work has been committed to the press; he will, however, judge in some measure of both, when he reflects that every page, one with another, contains at least 3500 figures, the computation of which requires at least 25000 more; and when this number is again multiplied by the number of pages, it will be readily granted, that an uncommon degree of care becomes necessary to avoid errors. Yet with the methods that have been employed, both in the computations and in the correction of the proofs, it is with great confidence presumed, that, with the exception of the few corrections mentioned in the errata, the work is as perfect as it is susceptible of being; and that the reader may participate in the same confidence, I propose, in the first place, to furnish him with the formulæ and method of computation.

TABLE I.—*Column of Factors.*

2. The first column of the several pages of Table I. contains the prime factors, and their powers, of every composite number from 1 to 10000; the prime numbers being denoted by a dotted line placed in the same column. Some of the uses of which will be mentioned in a subsequent chapter of this introduction, and I shall therefore in this place merely explain the method employed in the construction of it, which is as follows.

Having first resolved all the composite numbers from 1 to 100 into their factors, and arranged the prime numbers in their proper places, these were all increased by the multiplier 2, or an addition of unity to its idex, which thus furnished the factors of every even number up to 200. Then again every odd number of the first 100, as far as necessary, being multiplied by 3, gave the factors of every odd multiple of 3; then every 5th number by 5, gave the multiples of 5; and proceeding thus with the several prime numbers as far as the $\sqrt{100}$, furnished the factors of all the composite numbers under 200, the others not included being primes; and proceeding in the same manner with these 200, the factors were found up to 400, which again furnished others up to 800, and so on to the last.

After which, as this method of computation furnished no means of proving the several operations, every number was submitted to the proof of actual multiplication in the examination of the proof sheets; and consequently every error, both in the computation and in the press, were thus corrected before the impression was finally printed off.

TABLE I.—*Columns of Squares and Cubes.*

3. The columns of squares and cubes were computed from the formulæ $(x+1)^2=x^2+2x+1$; and $(x+1)^3=x^3+3x^2+3x+1$, as follows.

Having found the square and cube of any number, for example 100, the square of 101 was found by adding to that of 100, twice 100, *plus* 1; and the square of 102 by adding to the square of 101, found as above, twice 101, *plus* 1; and so on to 110; the square of which being the same as the square of 11, with the addition of two ciphers, was previously known and inserted in its proper place, which thus furnished a check upon all the operations between 100 and 110; and, in the same manner, the square of 120 being inserted in its proper place, furnished a check upon the operations between 110 and 120; and so on to the end. And in the same manner the successive

cubes were found, by adding to the cube of each number three times the square of it, and three times the number itself *plus* 1; as in the following tablet.

Numb.	Squares.		Cubes.	Numb.	Squares.		Cubes.
100	10000		1000000	105	11025		1157625
$2x+1$	201	$3x^2$	30000	$2x+1$	211	$3x^2$	33075
		$3x+1$	301			$3x+1$	316
101	10201		1030301	106	11236		1191016
$2x+1$	203	$3x^2$	30603	$2x+1$	213	$3x^2$	33708
		$3x+1$	304			$3x+1$	319
102	10404		1061208	107	11449		1225043
$2x+1$	205	$3x^2$	31212	$2x+1$	215	$3x^2$	34347
		$3x+1$	307			$3x+1$	322
103	10609		1092727	108	11664		1259712
$2x+1$	207	$3x^2$	31827	$2x+1$	217		34992
		$3x+1$	310				325
104	10816		1124864	109	11881		1295029
$2x+1$	209	$3x^2$	32448	$2x+1$	219	$3x^2$	35643
		$3x+1$	313			$3x+1$	328
				110	12100		1331000

Here the reader will readily trace the method of calculation, and will at once perceive that the check employed by the previous introduction of the square and cube of every tenth number, rendered it almost impossible that any error should have been passed by unnoticed.

In this manner I had advanced a considerable way in my computation, before I was aware that any table of such a nature had ever been computed beyond 1000; but I then learnt that Paul Buckner, as far back as the year 1701, had published at Norimberg a table containing the squares and cubes of all numbers to 12000, and that similar tables had also been computed by Dr. Hutton, and published in folio in 1781, containing, besides a table of products, the squares of all numbers to 25400, the cubes of all numbers to 10000, and the first 10 powers of all numbers to 100.

These two works furnished me with additional means of assuring the accuracy of my own tables; for while one person read over from the proof every square and cube, two others followed him from the works above mentioned; while I did the same from my own papers, on which the computation was made: every disagreement between the three was carefully examined, and the mistake corrected in whichever work it might be detected, and the sheets were not printed off till I had seen that the errors were properly corrected.

TABLE I.—*Columns of Square Roots and Cube Roots.*

4. The columns of square and cube roots were computed by means of a particular application of *Brigg's Differential Method*, or rather by *Stirling's Method of Interpolation*, adapted to the particular case in question, which will be readily understood from the following illustration.

$$\text{Let } (a^3+1)^{\frac{1}{3}} = a + \frac{1}{3a^2} - \frac{1}{9a^5} + \frac{5}{81a^8} - \frac{10}{243a^{11}} + \&c.$$

$$(a^3+0)^{\frac{1}{3}} = a$$

$$(a^3-1)^{\frac{1}{3}} = a - \frac{1}{3a^2} - \frac{1}{9a^5} - \frac{5}{81a^8} - \frac{10}{243a^{11}} - \&c.$$

represent the cube root of any three consecutive numbers, the 1st and 2d differences of which are,

$$\text{1st diff.} \begin{cases} + \frac{1}{3a^2} - \frac{1}{9a^5} + \frac{5}{81a^8} - \frac{10}{243a^{11}} \&c. \\ + \frac{1}{3a^2} + \frac{1}{9a^5} + \frac{5}{81a^8} + \frac{10}{243a^{11}} \&c. \end{cases}$$

$$\text{2d diff.} \left\{ + \frac{2}{9a^5} + \frac{20}{243a^{11}} - \&c. \right.$$

In the same manner, had it been necessary, we might have found the 3d, 4th, &c. differences; but in the present case, in which a is always greater than 10, (this method having only been used for numbers greater than 1000,) the 3d and 4th differences are too small to affect in any manner the result before the 12th or 13th figure of decimals; even the second term of this second difference is so small, that it may be omitted without altering the 11th place of decimals; for taking $a=10$, (the smallest it can be,) this second term, viz. $\frac{20}{243a^{11}} = \frac{20}{24300000000000}$ which, when converted into decimals, will not give an effective figure before the 11th place. We may, therefore, without any sensible error, call $\frac{2}{9a^5}$ the second difference, which will remain constant for several terms, while the computation (as in my case) is only carried to eight places of decimals. Supposing, therefore, the cube root of any two consecutive numbers greater than 1000 to be known, that is, $\sqrt[3]{(a^3-1)}$ and $\sqrt[3]{a^3}=a$, the 1st difference is ascertained by simple subtraction, and the second difference is found by the formula $\frac{2}{9a^5}$; and with these data, we may calculate eight or ten of the following roots when a new computation becomes necessary.

Suppose for example $\sqrt[3]{(a^3+1)}=a+d$, then $\sqrt[3]{a^3}$ being a, the 1st difference is d, and let the second difference $\frac{2}{9a^5}=c$; then supposing this last constant, we have

$$\begin{aligned}
\sqrt[3]{a^3} &= a \\
\sqrt[3]{(a^3+1)} &= a+d \\
\sqrt[3]{(a^3+2)} &= a+2d-c \\
\sqrt[3]{(a^3+3)} &= a+3d-3c \\
\sqrt[3]{(a^3+4)} &= a+4d-6c \\
\sqrt[3]{(a^3+5)} &= a+5d-10c \\
\sqrt[3]{(a^3+6)} &= a+6d-15c \\
\sqrt[3]{(a^3+7)} &= a+7d-21c \\
\sqrt[3]{(a^3+8)} &= a+8d-28c
\end{aligned}$$

Now, considering this last root, viz. $\sqrt[3]{(a^3+8)}$, to have been found by a previous computation, independent of this process, it is obvious that it would serve as a check to all these 8 operations. Or otherwise, knowing $\sqrt[3]{a^3}=a$ and $\sqrt[3]{(a^3+8)}=b$ we have from the last of the above steps $\sqrt[3]{(a^3+8)}-\sqrt[3]{a^3}=b-a=8d-28c$; whence $d=\frac{b-a+28c}{8}$.

Hence, knowing the cube root, $\sqrt[3]{a^3}=a$, and $\sqrt[3]{(a^3+8)}=b$, and having found c from the formula $\frac{2}{9a^5}=c$, the value of d may be found from the equation $d=\frac{b-a+28c}{8}$, and the computation may be carried on as before: only here, it is to be observed, that now instead of the check depending upon the cube root of a^3+8, as previously determined, it will depend upon the next difference; d' agreeing with that found from the two formulæ $c'=\frac{2}{9b^5}$ and $d'=\frac{b'-b+28c'}{8}$, which, however, is equally effective with the former in detecting any error in the computation.

It is by the latter of these methods that the following table of cube roots, beyond 1250, has been constructed. Having first found the cube roots of all numbers to 1250, true to 11 places of figures, by the method of approximation explained in a subsequent chapter, and having examined and corrected them by differencing as above, these were made the foundation of all the other roots in the table. For since the double of any cube root gives the cube root of 8 times that number, it is clear, that beginning with 156, 157, 158, &c. I readily obtained the cube root of the several numbers 1256, 1264, 1272, &c. viz. of every eighth number throughout the table, the truth of which might be depended upon to 10 places of figures or 8 places of decimals; and it only remained to interpolate between them, on the principles above explained. Hence the cube root of every number, from 1250 to 10000, was found to 28 places of decimals, but the last figure was afterwards cancelled throughout,

the 10th decimal only was retained, and that to the nearest place, whether in excess or defect: and finally, as this method did not furnish in itself any means of checking the several operations, the accuracy of them was submitted to the test of differencing every number; that is, in the revision of the proof sheets every number was subtracted from its preceding one, and these first differences from each other, and so on, as far as was necessary, to be assured of the accuracy of every number.

TABLE II.—*Containing the first* 10 *Powers of all Numbers, from* 1 *to* 100.

6. This table I did not compute, but the proof sheets of it were carefully collated figure for figure, both with Dr. Hutton's Table, mentioned above, and with that given by Vega in vol. ii. of his *Logarithmisch Trigonometrische Tafeln*, and every disagreement between the two was carefully examined and properly corrected.

TABLE III.—*Containing the 4th and 5th Powers of all Numbers from* 100 *to* 1000.

7. This table was computed as follows. Having in the preceding table found the 4th and 5th powers to 100, I begun at 51, and multiplying the 4th powers by 16, and the 5th powers by 32, I ascertained the 4th and 5th powers of the several even numbers to 200; and for those of the odd numbers I proceeded as follows.

Call the odd number of which the 4th power is required x, then, I had given the 4th power of $x+1$, and of $x-1$, to find the 4th power of x. Now

$$(x+1)^4 = x^4 + 4x^3 + 6x^2 + 4x + 1$$
$$(x-1)^4 = x^4 - 4x^3 + 6x^2 - 4x + 1$$

Whence $(x+1)^4 + (x-1)^4 = 2x^4 + 12x^2 + 2$

Therefore $x^4 = \frac{(x+1)^4 + (x-1)^4}{2} - (6x^2 + 1)$

That is, I added together the 4th powers of every two even numbers, and from half that sum subtracted 6 times the square of the intermediate number *plus* 1, which gave me the 4th power sought. Thus

$$(196)^4 = 1475789056$$
$$(198)^4 = 1536953616$$
$$2)3012742672$$
$$1506371336$$
$$-6\cdot 197^2 + 1 = \quad -232855$$
$$(197)^4 = \quad 1506138481$$

And having thus found the 4th powers of every number to 200, I proceed in the same manner to 400, from 400 to 800, and finally from 800 to 1000.

With regard to the 5th powers, I found those of the even numbers by multiplying those from 51 to 100 by 32, as stated above; and having thus found the 5th powers of the even numbers, the odd numbers were computed as follows:

$$(x+1)^5 = x^5 + 5x^4 + 10x^3 + 10x^2 + 5x + 1$$
$$(x-1)^5 = x^5 - 5x^4 + 10x^3 - 10x^2 + 5x - 1$$
$$(x+1)^5 + (x-1)^5 = 2x^5 + 20x^3 + 10x.$$

Consequently, $x^5 = \frac{(x+1)^5 + (x-1)^5}{2} - (10x^3 + 5x)$.

That is, from half the sum of the even 5th powers, I subtracted 10 times the cube of the intermediate number, and 5 times the number itself; which gave me the 5th power sought.

Thus . . . $(196)^5 = 289254654976$
$(198)^5 = 304316815968$

$2)593571470944$

296785735472
$10.197^3 + 5.197 = \quad - 76454715$

$(197)^4 = 296709280757$

This method of finding the 4th and 5th powers of the odd numbers may not, perhaps, strike the reader as possessing any advantage over the direct method of multiplication, but a little practice would soon convince him of the contrary. In a single isolated case, such as either of those given above, it certainly does not offer any advantages; but where a number of such computations are required, the several operations of addition, division, &c. being carried on each in continuation, and the squares and cubes being all previously found, the saving both in time and labour is very considerable; at the same time, the probability of error is very much diminished. But, as in this manner of computation no check could be introduced to prove the truth of the several operations, the whole of the table was submitted to the following test in the examination of the proof sheets, viz.

The truth of every even 10th number was ascertained by a comparison with the same number, or one tenth of it, in table ii. and to prove the truth of the other nine, they were added into one sum; from which, having subtracted 10 times the square of 6 times the middle number of the nine, and the constant number 708, one ninth of the remainder was equal to the 4th power of that middle number, when the work was right. For

$$\left.\begin{array}{l}(x+4)^4+(x+3)^4+(x+2)^4+(x+1)^4+x^4\\(x-4)^4+(x-3)^4+(x-2)^4+(x-1)^4\end{array}\right\}=$$

$$9x^4+360x^2+708=9x^4+10\cdot(6x)^2+708$$

And consequently, if from this sum, $10\cdot(6x)^2+708$ be subtracted, the remainder is equal to $9x^4$. Thus, for example,

$$\begin{array}{l}101^4=104060401\\102^4=108243216\\103^4=112550881\\104^4=116985856\\105^4=121550625\\106^4=126247696\\107^4=131079601\\108^4=136048896\\109^4=141158161\end{array}$$

From the sum . . .	1097925333
Take $10\cdot 630^2+708=$	3969708
Divided by 9	9)1093955625
$105^4=$	121550625

Which last quotient, being the same as 105^4, is a sufficient proof of the truth of all these nine numbers. It might happen, it is true, that an error would not be detected by this process, viz. when two of the other powers were incorrect, the one of them as much in excess as the other in defect; but regarding this event according to the doctrine of probabilities, it will be found, that a coincidence of errors of this kind is so extremely improbable, that the value of such proof is little less than that of absolute certainty. The 5th powers were proved on the same principles, viz. by subtracting from the sum of every nine numbers 600 times the cube of the middle number, and 3540 times the number itself; because

$$\left.\begin{array}{l}(x+4)^5+(x+3)^5+(x+2)^5+(x+1)^5+x^5\\(x-4)^5+(x-3)^5+(x-2)^5+(x-1)^5\end{array}\right\}=$$

$$9x^5+600x^3+3540x$$

These numbers are not so convenient as those for the 4th powers, but the check which they offer is equally satisfactory and conclusive.

Table IV.—*For the Solution of the Irreducible Case in Cubic Equations.*

8. Without entering here into any particular explanation of the use of this table, it will be sufficient to observe, that it con-

tains the value of the expression $y^3 - y$, for every value of y, from 1 to 1·1549, between which limits the unknown quantity must fall in equations belonging to the irreducible case, as is shown in the following chapter. All, therefore, that was necessary for the construction of this table, was to subtract from the cube of every number between the limits 1 and 1·1549, the number itself, which was done by means of the tables of Paul Buckner, above mentioned, in which the cubes of the several numbers are given as far as 12000^3. But as I had found the tables of this author to be very defective, the truth of every result was proved by 1st and 2d differences, as described above, which rendered it impossible for any error to escape detection.

Table V.—*Of Prime Numbers.*

9. This table was transcribed from Vega's *Table of Factors* of all composite numbers to 101900, in which all the prime numbers within the same limits are also necessarily included; after which, it was in the proof sheets carefully compared with three different tables of these numbers to the same, or to a greater extent; and where any disagreement was observed, the number was carefully examined, and corrected when necessary.

Table VI.—*Of the Hyperbolic Logarithms of all Numbers, from* 1 *to* 10000.

10. In the construction of this table I am much indebted to that given by Schulze, in vol. ii. of his *Mathematical Tables*. This author has given the hyperbolic logarithm of every prime number as far as 10000, to many places of decimals; and the formation of my table, therefore, only required the addition of the logarithm of the factors of the several composite numbers within the same limits; but as I had found some errors in certain other tables of the same author, I was fearful of depending entirely upon his accuracy in these, and I therefore submitted the whole of my table to the test of taking the 1st and 2d differences, as above described. This was done while 9 decimal places were retained, after which, the 9th decimal was rejected, and the 8th made to agree to the nearest unit, whether in excess or defect.

Table VII. has been taken from Vega's *Mathematical Tables*, and therefore requires no particular notice in this place.

TABLE VIII.—*Of various Formulæ relating to Doctrines of Equations, Series, Fluxions, Fluents, &c. &c. &c.*

11. This table has been formed from the results given by various authors who have treated on the subjects which it comprises. What relates to the solution of equations has been drawn from various sources. The synopsis of indeterminate formulæ I have taken from my own *Theory of Numbers:* the formulæ relating to annuities have been extracted from Baily's *Doctrine of Interest and Annuities;* and those relating to the summation of series, from the works of Moivre, Euler, and the 2d volume of Bonnycastle's *Algebra.* The logarithmic series, from the same author's *Trigonometry;* but the trigonometrical series and formulæ, I owe principally to the *Traité de Trigonométrie* by Cagnoli: the synopsis of mensuration has been derived from Dr. Hutton's *Treatise on Mensuration:* what relates to mechanics, from Gregory's *Mechanics;* and the table of fluxions and fluents, from vol. ii. of Vega's *Tables* above mentioned; and the synopsis of astronomy, from La Place's *Exposition du Système du Monde.* Besides these works, to which I am most indebted, I have consulted many other authors, which, however, it would be useless to mention, as the formulæ given in the table have been so much altered for the convenience of arrangment and uniformity, that it would be difficult to trace them even in the works from which they have been derived. I have therefore only further to add, that in this, as in every other part of the present performance, the greatest possible care has been taken to avoid error; where any doubt could fairly be entertained of the accuracy of any of the formulæ, they have been investigated and examined with the greatest care and attention.

TABLE IX.—*Of Weights and Measures,* at least those which relate to the comparison of the measures of different nations, have been extracted from Rees's *Cyclopædia,* article *Measure,* which, by the acknowledgment of the editor of that work, were copied from Dr. Kelly's *Universal Cambist;* and

TABLE X.—*Of the Specific Gravities,* principally from Davies and Lavoisier.

Having thus explained the method of computation employed in the several tables which have been computed, and the authors to whom I am indebted for those which I have adopted, I shall now proceed to explain the use and application of them to such practical cases as most commonly arise, and in which they will be found more particularly useful.

APPLICATION AND USE OF THE TABLES.

TABLE I.—12. After the first simple rules of addition, subtraction, multiplication, and division, there are no operations more commonly required in arithmetical calculations, than those which relate to the squaring and cubing of numbers, and the extraction of their square roots and cube roots. These are all more or less laborious; the cubing of a number, consisting of three or four places of figures, is far from a desirable task; but the extraction of its root, when the answer is required to a tolerable degree of accuracy, employs a very considerable portion of time as well as labour; besides the mental dissatisfaction that commonly attends long calculations, which do not admit of a ready means of verification. It is true, that a table of logarithms will much facilitate the operation, if the answer is not required to more than six or seven figures; beyond this extent, no satisfactory solution can be obtained by that method; and with regard to the squaring and cubing of numbers of three or four figures, it cannot be employed at all, if the correct result is required; in which cases, therefore, recourse must be had to the actual operations, or to tables constructed for the purpose.

Such is the table we are about to describe; it exhibits the exact square and cube of every number, from 1 to 10000, and the approximate square root and cube root of the same numbers, true to seven places of decimals, or to nine places of figures, and by means of which the square and cube, or the square root and cube root, of any number whatever, is readily obtained to the same degree of precision.

Another arithmetical operation, which very commonly occurs, and which is attended with not much less trouble than those above mentioned, is the conversion of a vulgar into a decimal fraction; this operation will be much facilitated by the column of reciprocals. These, when the numerator of the proposed fraction is unity, exhibit the correct decimal to ten places; and in other cases, they serve to convert the operation of division into that of multiplication; that is, by multiplying the reciprocal of its denominator by the numerator, instead of dividing the latter by the former.

As to the column of factors, there are many cases in which it is convenient, and some in which it is absolutely necessary, for us to know how a number is compounded, or whether it be

a prime number; and since these kind of researches are always attended with difficulty for want of a direct process, this column will in these cases be found extremely convenient, provided the number fall within the limits of the table.

Having said thus much concerning the general utility of such a table as the present, let us now propose a few examples by way of illustration. With regard to numbers under 10000 no observation need be made, as it is only necessary to refer to the number in the table, and opposite which will be found the result required, whether it be the factors of the number, or its square, cube, square root, cube root, or reciprocal: thus

The factors of . . 5282 are 2, 19, and 139.
The square of . . 5297 = 28058209
The cube of . . . 5297 = 148624333073
The square root of 5303 = 72·8217001
The cube root of 5309 = 17·4449974
And the reciprocal of 9119, or $\frac{1}{9119}$ . . . = ·0001096611

All these cases are extremely obvious, and need no farther explanation; but when the number exceeds the limits of the table, some further directions may be necessary.

To find the square of a number, consisting of more than four figures.

13. Consider the number as made up of the sum of two numbers, both of which may be found in the table, or their 10th or 100th, &c. part; then the square of the proposed number is equal to the square of the two parts, *plus* their double rectangle.

Ex. 1. Required the square of 77275.

$77275 = 77270 + 5$
$77270^2 = 5970652900$
$10 \times 77270 = 772700$
$5^2 = 25$

Hence . . . $77275^2 = 5971425625$

Ex. 2. Required the square of 37841.

$37840^2 = 1431865600$
$2 \times 37840 = 75680$
$1^2 = 1$

Hence . . . $37841^2 = 1431941281$

Sometimes it may be convenient to consider the number as being the difference of two others; viz. when the last digit

exceeds 6 or 7, in which case, the double rectangle must be subtracted from the sum of the squares of the two parts. Thus,

Ex. 3. Required the square of 78459.

$$78459 = 78460 - 1$$
$$78460^2 = 6155971600$$
$$1^2 = 1$$
$$-2 \times 78460 = -156920$$

Hence . . . $78459^2 = 6155814681$

Ex. 4. Required the square of 647825.

$$647825 = 647800 + 25$$
$$647800^2 = 419644840000$$
$$50 \times 647800 = 32390000$$
$$25^2 = 625$$

Hence . . $647825^2 = 419677230625$

It may not be amiss to observe, that the operation is exactly the same, whether the proposed number be integral, decimal, or mixed of the two; the only difference being in supplying the decimal point in either of the two latter cases.

To find the cube of a number consisting of more than four places of figures.

14. Consider the number as made up of the sum or difference of two other numbers; then to the sum of the cubes of the two parts, add three times their product into the number itself, which will be the cube required in the former case; or from the difference of their cubes, subtract three times the product of the parts into the number in the latter case.

Ex. 1. Required the cube of 37451.

$$37451 = 37450 + 1$$
$$37450^3 = 52523718625000$$
$$3 \times 37450 \times 37451 = 4207619850$$
$$1^3 = 1$$

Hence . . . . $37451^3 = 52527926244851$

Otherwise.—Add into one sum the cubes of the greater and less parts, with three times the square of the greater part into the less, and three times the square of the less part into the greater, for the cube sought.

Thus, in the preceding example,

$$37450^3 = 52523718625000$$
$$3 \cdot 37450^2 = 4207507500$$
$$3 \cdot 37450 = 112350$$
$$1 = 1$$

52527926244851 *as before.*

This applies only to the case in which the number is taken equal to the sum of two others; when it is made equal to the difference, the sum of the second and fourth lines must be subtracted from the sum of the first and third;

$$\text{For } (a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$
$$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$\text{Or } (a+b)^3 = a^3 + b^3 + 3ab\,(a+b)$$
$$(a-b)^3 = a^3 - b^3 - 3ab\,(a-b)$$

which answers to the first rule.

To find the square root of any number by the tables.

15. If the proposed number be integral, and under 10000, its root may be found, by inspection in the tables, true to nine places; but if it be wholly decimal, or partly integral and partly decimal, or if it be wholly integral, and greater than 10000, a certain process becomes necessary, which it may be proper to explain.

First, then, it may be observed, that whatever the number may be, it is readily converted into another, consisting of three or four integers with decimals, by merely moving the decimal point two, four, six, &c. places, to the right or left hand, as the case may require, and afterwards moving the decimal point one, two, three, &c. places, the contrary way in the root.

Thus, in the following numbers,

$$\sqrt{\cdot 1234} = \tfrac{1}{100}\sqrt{1234}$$
$$\sqrt{12{\cdot}34} = \tfrac{1}{10}\sqrt{1234}$$
$$\sqrt{1{\cdot}234} = \tfrac{1}{10}\sqrt{123{\cdot}4}$$
$$\sqrt{123456} = 10\sqrt{1234{\cdot}56}$$

and so on for any other numbers. And as this division or multiplication by 10, 100, &c. only requires the removal of the decimal point, it is obvious that the extraction of the square root of any number depends upon finding the square root of a number consisting of three or four integers with decimals; and it is therefore to this case we shall first direct the attention of the reader.

To find the square root of a number consisting of integers and decimals.

16. Assume the root of the nearest integral number, found in the tables, for an approximate root, then proceed according to the formula, art. 1, table viii.; viz.

$$\sqrt{x} = r \pm \frac{2r\,(x - r^2)}{3r^2 + x}$$

That is, multiply the difference between the given number and the nearest integer number by double the assume root, and divide the product by three times that number, *plus* the given number, which will be the correction required, true, at least, to seven places of decimals.

The above formula is obtained as follows.

Let x represent any number of which the square root is required, and let r be an approximate root, and c the correction, or the difference between the true and assumed root; that is, let $\sqrt{x} = r + c$; then

$$x = r^2 + 2rc + c^2$$
$$2rx = 2r^3 + 4r^2c + 2rc^2$$

Add c^3 to both sides, then

$$2rx + c^3 = 2r^3 + 4r^2c + 2rc^2 + c^3, \text{ or}$$
$$2r(x - r^2) + c^3 = [3r^2 + (r + c)^2]\,c = (3r^2 + x)\,c$$

Whence . . $c = \frac{2r(x - r^2)}{3r^2 + x} + \frac{c^3}{3r^2 + x}$

Or, rejecting the latter term as inconsiderable with regard to the former, we have

$$c = \frac{2r(x - r^2)}{3r^2 + x}, \text{ or}$$

$$\sqrt{x} = r + \frac{2r(x - r^2)}{3r^2 + x} \textit{ very nearly.}$$

The rejected part, $\frac{c^3}{3r^2 + x}$, will never in our case effect the seventh place of decimals in the root, for x being supposed to consist at least of three integers, and r being the nearest tabular root to $\sqrt{x}$, it is evident, either by reference to the tables, or to the above formula, that c will in no case exceed ·02, and consequently c^3 cannot exceed ·000008; which, when divided by a number consisting at least of three integers, cannot give an effective figure before the 8th place of decimals; and even this can only happen in an extreme case, in which r is the least, and c the greatest possible; but in the generality of cases, such as we have supposed, it will not effect even the 10th place of decimals.

Ex. 1. Required the square root of 746·2.

$$\sqrt{746} = 27{\cdot}3130006$$
$$\cdot 4 = 2 \times \cdot 2$$

$$3r^2 + x = 2984{\cdot}2)10{\cdot}92520024(\cdot 0036610$$

$$\sqrt{746} = 27{\cdot}3130006$$
$$\cdot 0036610$$

$$\sqrt{746{\cdot}2} = 27{\cdot}3166616 \text{ as required.}$$

Ex. 2. Required the square root of ·3471.

$$\sqrt{\cdot 3471} = \tfrac{1}{100}\sqrt{3471}$$
$$\tfrac{1}{100}\sqrt{3471} = \cdot 589151963 \text{ as required.}$$

Ex. 3. Required the square root of ·74635.

$$\sqrt{\cdot 74635} = \tfrac{1}{100}\sqrt{7463\cdot 5}.$$

$$\sqrt{7463} = 86\cdot 3886567$$

$$1\cdot 0 = 2 \times \cdot 5$$

$$3r^2 + x = 29852\cdot 5)86\cdot 38865670(\cdot 0028938$$

$$86\cdot 3886567$$
$$0028938$$

$$\sqrt{\cdot 74635} = \cdot 863915505 \text{ as required.}$$

The preceding method of finding the correction for the decimal part of the number is as correct as can be desired, but it involves a greater portion of calculation than could be wished; it will, therefore, be proper to explain another method of obtaining the same result, which is attended with less trouble, but which, at the same time, is a little less accurate than the former, as it will not, in some cases, give more than six decimals true; it will, however, never give less than six, and therefore may frequently be advantageously employed in cases where the utmost accuracy is not required. This consists in converting any proposed number, whether integral or decimal, into another, consisting of four integers with decimals, viz. by multiplying or dividing it by such a square number as may be necessary for that purpose. Then, having taken the root of the integral part as before, multiply the difference between that root and the next greater tabular root by the decimal part of the proposed number, which will give the correction true, in all cases, at least to six places of decimals, but commonly to seven, as in the former rule. Lastly, divide or multiply the root thus found by the root of the square, by which the proposed number was multiplied or divided, which will give the root required.

This rule depends upon the following principles. Let x represent any number, consisting at least of four integers, and put $\sqrt{x} = r$; or $x = r^2$, r being the tabular root, then the root of $x + 1$, or $r^2 + 1$, will be

$$\sqrt{(r^2 + 1)} = r + \frac{1}{2r} - \frac{1}{8r^3} + \frac{1}{16r^5} - \&c.$$

which latter term, however, with the value we have given to r (which must exceed 31), will form no part of the tabular root; hence the difference of any two tabular roots,

$$\sqrt{r^2} = r, \text{ and}$$

$$\sqrt{(r^2 + 1)} = r + \frac{1}{2r} - \frac{1}{8r^3}$$

is $\frac{1}{2r} - \frac{1}{8r^3}$

Now, if d be made to represent any decimal, then

$$\sqrt{(r^2+d)} = r + \frac{d}{2r} - \frac{d^2}{8r^3},$$

and consequently the difference between this root and the $\sqrt{r^2} = r$, is $\frac{d}{2r} - \frac{d^2}{8r^3}$; whereas the difference, or correction, according to the preceding rule, is

$$\left\{\frac{1}{2r} - \frac{1}{8r^3}\right\} d = \frac{d}{2r} - \frac{d}{8r^3},$$

being less than the true difference by $\frac{d-d^2}{8r^3}$; and it remains to be shown, that this fraction can never produce an error that will effect the sixth place of decimals.

Now, first, since d is a decimal, $d - d^2$ can never exceed ·25 or $\frac{1}{4}$; and since x, or $r^2 > 1000$, it follows, that $r > 31$; and consequently $\frac{d-d^2}{8r^3}$ can never be greater than $\frac{31}{32000000}$, which it is obvious will not give an effective figure before the seventh place.

And it will be observed, that this is an extreme case, in which r is the least and $d - d^2$ the greatest possible, which may also, in all cases, be avoided by multiplying such a square by 4 or 9, which will bring the number higher up in the table, when the root will be obtained, true to seven decimals, as is easily shown in the same manner as above.

Ex. 1. Let it be proposed to find the square root of 1248·35.

$$\sqrt{1248\cdot35} = \tfrac{1}{2}\sqrt{4993\cdot4}$$

$\sqrt{4993\cdot}$ =	70·6611633	tab. diff. 0070756
Add	00283024	·4
	2)70·66399354	·00283024
$\sqrt{1248\cdot35}$ =	35·3319968	

taking it to the nearest unit, which root is true to the last place.

Ex. 2. Required the square root of 674·45.

$$\sqrt{674\cdot45} = \tfrac{1}{3}\sqrt{6070\cdot05}$$

$\sqrt{6070}$ =	77·9102047	tab. diff. ·0064174
Add	00032087	·05
	3)77·91052557	·000320870
$\sqrt{674\cdot45}$ =	25·9701752	

Ex. 3. Required the square root of 674660.

$\sqrt{674660} = 10\ \sqrt{6746{\cdot}6}$

$\sqrt{6746} = 82{\cdot}1340368$ tab. diff. ·0060874

Add 00365244 ·6

$\sqrt{674660} = 281{\cdot}3768924$ ·00365244

These examples are sufficient for illustrating the use of the column of square roots for extracting the roots of numbers not within the limits of the table, and we shall therefore now give a few examples relative to the cube root.

To find the cube root of any number by the table.

17. If the proposed number be integral, and within the limits of the table, its root will be found by inspection, and if it be not found in the table, multiply it or divide it by such a cube number as will bring it within the limits of the tables, as explained in the preceding article. Then assume the root of the integral part of the number as an approximate root, and find the correction by the formula given in art. 1, table viii. viz.

$$\sqrt[3]{x} = r + \frac{r(x - r^3)}{2r^3 + x}$$

Or *otherwise*, multiply the difference between the above root and the next greater tabular root, by the decimal part of the proposed number for the correction.

The investigation of these two rules is nearly the same as is given above, but it will not be amiss to repeat it again, in order to be assured of the extent of their approximation.

Let x be any number consisting of four integers with decimals, of which r is an approximate root, and let c represent the correction, or the difference between the true and assumed root, so that $\sqrt[3]{x} = r + c$, or,

$$x = r^3 + 3r^2c + 3rc^2 + c^3$$
$$3rx = 3r^4 + 9r^3c + 9r^2c^2 + 3rc^3$$
$$3r(x - r^3) = 6r^3c + 3r^3c + 9r^2c^2 + 3rc^3$$

Add $6rc^3 + 3c^4$ to both sides, then

$$3r(x - r^3) + 6rc^3 + 3c^4 = (6r^3 + 3 \cdot \overline{r + c}^3)\, c, \text{ or}$$
$$3r(x - r^3) + 6rc^3 + 3c^4 = (6r^3 + 3x)\, c$$

Whence $c = \frac{3r(x - r^3)}{6r^3 + 3x} = \frac{r(x - r^3)}{2r^3 + x}$

The part $\frac{2rc^3 + c^4}{2r^3 + x}$ being rejected as inconsiderable with regard to the other part.

And since here, r cannot be less than 10, in the case we have supposed, nor c greater than ·003, it is obvious, that this rejected part can never effect the seventh decimal.

In the second rule, let r still represent the cube root of the integral part of x, or $x = r^3$, then

$$\sqrt[3]{x} = r$$

$$\sqrt[3]{(r^3 + 1)} = r + \frac{1}{3r^2} - \frac{1}{9r^5} + \frac{5}{81r^8} - \&c.$$

but since r is never less than 10, it is evident, that the term $\frac{5}{81r^8}$ does not enter into our tabular root, consequently $\frac{1}{3r^2} - \frac{1}{9r^5}$ will represent the tabular difference between the cube roots of two consecutive tabular numbers.

Now d denoting any decimal,

$$\sqrt[3]{(r^3 + d)} = r + \frac{d}{3r^2} - \frac{d^2}{9r^5} + \&c.$$

and consequently the difference between $\sqrt[3]{r^3}$, and $\sqrt[3]{(r^3 + d)}$ is $\frac{d}{3r^2} - \frac{d^2}{9r^5}$; whereas the difference according to the rule is

$$\left\{\frac{1}{3r^2} - \frac{1}{9r^5}\right\} d = \frac{d}{3r^2} - \frac{d}{9r^5}$$

being less than the true difference by $\frac{d - d^2}{9r^5}$.

And since in our case, r cannot be less than 10, nor $d - d^2$ greater than $\frac{1}{4}$, it is obvious that $\frac{d - d^2}{9r^5}$ can never exceed $\frac{1}{3600000}$, which will not give an effective figure before the seventh place.

And here again it may be observed, that this is an extreme case, in which the error is the greatest possible, which may always be avoided by multiplying the proposed number by 8, so as to bring it nearer the conclusion of the table, in which case the seventh decimal may be safely depended upon.

The latter rule being much more convenient than the former, we shall confine our illustration to that only in the following examples.

Ex. 1. Required the cube root of 6687·5.

$\sqrt[3]{6687}$ =	18·8398356	tab. diff. ·0009391
Add	00046955	·5
$\sqrt[3]{6687{\cdot}5}$ =	18·84030515	·00046955

Ex. 2. Required the cube root of 7·468.

$$\sqrt[3]{7{\cdot}468} = \tfrac{1}{10}\sqrt[3]{7468} = 1{\cdot}95464594$$

Ex. 3. Required the cube root of 84·76.

$$84{\cdot}76 \times 64 = 5424{\cdot}64$$

$$\text{Or } \sqrt[3]{84{\cdot}76} = \tfrac{1}{4}\sqrt[3]{5424{\cdot}64}$$

$\sqrt[3]{5424}$ =	17·5700593	tab. diff. 0010797
	0006910	·64
	4)17·5707503	·000691008
$\sqrt[3]{84{\cdot}76}$ =	4·3926876	

Ex. 4. Required the cube root of 8406310.

$$\sqrt[3]{8406310} = 10\sqrt[3]{8406{\cdot}310}$$

$\sqrt[3]{8406}$ =	20·3327661	tab. diff. ·0008062
Add	0002499	·31
	20·3330160	·000249922
	10	
$\sqrt[3]{8406310}$ =	203·330160	

It was by the former of these rules, that the cube roots of the first 1250 numbers were taken to 11 places, as mentioned at page v of the preceding chapter; that is, by means of the table of cubes of Paul Buckner. I was able to assume 5 places of figures to the nearest unit, then working according to the 1st rule, I could depend upon my correction to 6 places farther, making in all 11 places, as stated in the place above quoted, and which were afterwards submitted to the test of differencing, as before explained.

To find the square and cube roots of Fractional Quantities.

18. This may be done by reducing the fractions to decimals, and then extracting the roots by any of the preceding rules; but in many cases, it will be more convenient (by means of the column of factors) to reduce the surd to its simplest form, and then to extract the root by the column of square roots or cube roots, as the case may require, as in the following examples.

Ex. 1. Required the square root of $\frac{73}{578}$.

By the column of factors $\frac{73}{578} = \frac{73}{17^2 2}$.

Therefore $\sqrt{\frac{73}{578}} = \sqrt{\frac{146}{17^2.2^2}} = \frac{1}{34}\sqrt{146} = {\cdot}3553837$ as required.

Ex. 2. Required the cube root of $\frac{1372}{6591}$.

By the table of factors $\frac{1372}{6591} = \frac{7^3.4}{13^3.3}$.

Therefore . . . $\sqrt[3]{\frac{1372}{6591}} = \sqrt[3]{\frac{7^3.4}{13^3.3}} = \sqrt[3]{\frac{7^3.36}{13^3.3^3}} = \frac{7}{39}\sqrt[3]{36} =$ ·5926536 as required.

And the same method may be employed for any fraction, whose terms fall within the limits of the table.

Tables II. *and* III.—*On the higher Powers of Numbers.*

19. These tables require little or no explanation. Table II. contains the first ten powers of every number from 1 to 100; and if any higher power of any particular numbers is wanted, two or more such powers must be taken out of the table as, when multiplied together, will produce the power required. Thus, if the 20th power of 2 were required, we should have

$$2^{10} \times 2^{10} = 1024 \times 1024 = 1048576 = 2^{20}$$

Or since $4 = 2^2$, $2^{20} = 4^{10} = 1048576$

Again $3^{30} = 27^{10} = 205891132094649$.

Let it now be required to find the 27th power of 3.

$$3^{27} = 27^9 = 7625597484987$$

And a similar method of contraction may generally be employed for the higher powers of the smaller numbers.

Table III. contains the fourth and fifth powers of all numbers from 100 to 1000; and if it should happen that the same powers of numbers exceeding 1000 should be required, they may be found by the known formulæ

$$(a + x)^4 = a^4 + 4a^3x + 6a^2x^2 + 4ax^3 + x^4$$

$$(a + x)^5 = a^5 + 5a^4x + 10a^3x^2 + 10a^2x^3 + 5ax^4 + x^5$$

Suppose, for example, the 4th power of 2841.

$$2841^4 = (2840 + 1)^4$$

$2840^4 =$	65053903360000
$4 \cdot 2840^3 =$	91625216000
$6 \cdot 2840^2 =$	48393600
$4 \cdot 2840 =$	11360
$1 =$	1
Hence $2841^4 =$	65145576980961

It is seldom, however, that we want the complete 4th or 5th powers of very high numbers, and it would therefore be useless to give any farther examples.

These tables are principally designed to facilitate the approximation to the roots of equation, and we shall therefore have occasion to refer to them again in treating on that subject.

TABLE IV.—*For the Solution of the Irreducible Case.*

20. This table is designed to facilitate the solution of those examples which fall under what is termed the *Irreducible Case* in cubic equations, and which do not admit of any finite solution by the formula of Cardan, at least only in particular cases.

As this case presents a singular anomaly in the theory of equations, and is the first difficulty we meet with in the solution of them, it may be interesting to a certain class of readers to see the principle which gives rise to it fully and fairly investigated; and we shall therefore attempt this before entering into a particular explanation of the use and application of the table.

The form under which a cubic equation naturally arises is

$$y^3 + py^2 + qy + r = 0$$

in which p, q, and r, may be any of them either positive, negative, or zero.

But for the convenience of solution, it is commonly converted into a dependent equation of the form

$$x^3 + ax - b = 0, \text{ or } x^3 + ax = b,$$

which is done by assuming $y = \frac{x-p}{3}$, or $y = \frac{1}{3}x - \frac{1}{3}p$, and substituting this value instead of y in the proposed equation: thus,

$$\begin{array}{rlll} y^3 = & (\frac{1}{3}x - \frac{1}{3}p)^3 = & \frac{1}{27}x^3 - \frac{1}{9}px^2 + \frac{1}{9}p^2x - \frac{1}{27}p^3 \\ py^2 = & p(\frac{1}{3}x - \frac{1}{3}p)^2 = & \quad + \frac{1}{9}px^2 - \frac{2}{9}p^2x + \frac{1}{9}p^3 \\ qy = & q(\frac{1}{3}x - \frac{1}{3}p) = & \quad\quad\quad \frac{1}{3}qx - \frac{1}{3}pq \\ r = & r = & \quad\quad\quad\quad\quad r \end{array}$$

$$\frac{1}{27}x^3 + (\frac{1}{3}q - \frac{1}{9}p^2)x - (\frac{1}{3}pq - \frac{2}{27}p^3 - r) = 0$$

Or multiplying the whole by 27,

$$x^3 + (9q - 3p^2)x - (9pq - 2p^3 - 27r) = 0$$

Again, writing $9q - 3p^2 = a$, $9pq - 2p^3 - 27r = b$, we have $x^3 + ax = b$.

These are the formulæ given for this reduction in the note at page 261 of table viii. and which are more convenient than those commonly given for that purpose, because we thus necessarily obtain integral coefficients, whereas the common reduction frequently gives fractional ones.

Having thus reduced the original equation to the form $x^3 + ax = b$ our next object is to obtain the solution of it by means of an equation of inferior dimensions, viz. by a quadra-

tic. The most natural means of proceeding to effect this is, to introduce two unknown quantities into the equation instead of one, which enables us to form two arbitrary equations, whence the solution may be obtained: thus,

Assume . . . $x = p + q$

Then . . . . . $x^3 = \left.\begin{matrix} p^3 \\ 3pq \\ q^3 \end{matrix}\right\} \times (p + q)$

But the equation gives

$$x^3 = -ax + b$$

And since $p + q = x$, this enables us to form a variety of arbitrary equations; thus we might make

$p^2 + q^2 = -a$ and $2pq\ (p + q) = b$, or

$2pq = -a$ and $(p^2 + q^2)\ (p + q) = b$

$3pq = -a$ and $(p^2 - pq + q^2)\ (p + q) = b$

and a variety of others.

But it happens with all that can be formed, except the last, that the solution of them gives rise to a higher equation than the one originally proposed, and consequently will not answer the purposes of simplification.

The last, when reduced, become

$$3pq = -a$$
$$p^3 + q^3 = b$$

the solution of which gives

$$p = \sqrt[3]{\left\{\frac{b}{2} + \sqrt{\left(\frac{b^2}{4} + \frac{a^3}{27}\right)}\right\}}$$

$$q = \sqrt[3]{\left\{\frac{b}{2} - \sqrt{\left(\frac{b^2}{4} + \frac{a^3}{27}\right)}\right\}}$$

Whence $x = \sqrt[3]{\left\{\frac{b}{2} + \sqrt{\left(\frac{b^2}{4} + \frac{a^3}{27}\right)}\right\}} + \sqrt[3]{\left\{\frac{b}{2} - \sqrt{\left(\frac{b^2}{4} + \frac{a^3}{27}\right)}\right\}}$

which is a general finite analytical solution of every cubic equation of the form $x^3 + ax = b$.

And when a is a positive number, whatever sign or value b may have, the numerical value of x may obviously be obtained, as it may also when a is negative, provided $\frac{a^3}{27} < \frac{b^2}{4}$; but when a is negative, and $\frac{a^3}{27} > \frac{b^2}{4}$, then the quantity under the inferior radical being negative, both branches of the formula become imaginary, and the equation is said to be of the *irreducible case*, because then no numerical solution can be obtained by this method, notwithstanding equations falling under this form have three real roots, whereas those equations which fall under the reducible form have only one, the other two being imaginary. This singular anomaly has not failed to attract the attention of many eminent modern algebraists, and a variety of attempts have been made to obtain the solution by other sub-

stitutions, but in no case have these attempts been crowned with success; the question still remains, with all its difficulties, like that of the *trisection of an angle*, with which it is connected, the *duplication of the cube*, the *quadrature of the circle*, and some other celebrated problems of the same kind.

Observations relating to the Irreducible Case in Cubic Equations.

21. In order to trace this difficulty to its source, we must refer to the two arbitrary equations which enabled us to find the values of p and q. We saw that there were a variety of equations, any pair of which, if we could have arrived at their solution, would have furnished us with the solution of the original equation; but it happens, that only one of them can be solved by a quadratic, viz.

$$\begin{cases} 3pq = -a, \text{ and} \\ p^2 - pq + q^2 (p + q) = b \end{cases}$$

$$\text{Or } p^3q^3 = \frac{-a^3}{27}, \text{ and } p^3 + q^3 = b.$$

And it is obvious, if these equations involve any impossible condition, that is, if the two are inconsistent with each other, then the solution of them must also involve some impossibility or some imaginary quantity, which is the same thing. Now this is precisely the case with the equation in question; for since $p^3 + q^3 = b$, the greatest product that can be formed of these two quantities is when they are equal to each other, or each equal to $\frac{1}{2}b$, in which case the product is $\frac{1}{4}b^2$. But we have supposed $p^3q^3 = \frac{-a^3}{27}$; therefore, when $\frac{a^3}{27} > \frac{b^2}{4}$, the two conditions cannot have place at the same time; and consequently the solution of them, on the supposition of their co-existence, can only be obtained by means of imaginary quantities.

With the suppositions, therefore, that have been made, (and it does not appear that any others can be adopted,) equations under the above relation of their co-efficients must necessarily fall under the irreducible case.

It does not appear, however, from what is stated above, that this condition is a necessary consequence of an equation having three real unequal roots, or that an equation must necessarily have three real roots under these relations of its co-efficients; yet such is the case, and being one of the most remarkable characteristics of these equations, we shall bestow a few lines on this subject before we proceed to the solution of equations of this form.

For this purpose, let $x^3 - ax = b$ represent a cubic equa-

tion; it is to be shown, 1st, that if the three roots of this equation be real, it is of the irreducible form, viz. it will have $\frac{a^3}{27} > \frac{b^2}{4}$. And 2dly, that if it be of the irreducible form, or have $\frac{a^3}{27} > \frac{b^2}{4}$, it must necessarily have three real roots.

Let the three roots of the equation be α, β, and γ, one of which, at least, must be real, which let be γ; then the whole equation, $x^3 - ax - b = 0$, being divided by $x - \gamma$, will give $x^2 - (\alpha + \beta)x + \alpha\beta = 0$.

Or, since $\alpha + \beta + \gamma = 0$, and $\alpha\beta\gamma = b$

We have $\alpha + \beta = -\gamma$, and $\alpha\beta = \frac{b}{\gamma}$;

Whence it becomes $x^2 + \gamma x = \frac{-b}{\gamma}$,

Or, ... $x = \frac{-\gamma}{2} \pm \sqrt{\left(\frac{\gamma^2}{4} - \frac{b}{\gamma}\right)}$

which will be the other two roots of the equation, and which expression will be real or imaginary, according as $\frac{\gamma^2}{4}$ is greater or less than $\frac{b}{\gamma}$, or according as γ^3 is greater or less than $4b$.

First, let γ^3 be greater than $4b$, or, which is the same, let the three roots of the equation be real, then I say, $\frac{a^3}{27} > \frac{b^2}{4}$.

For since by the supposition $\gamma^3 > 4b$, let $\gamma^3 = 4b + \delta$; also γ being one of the roots of the equation, we have

$$\gamma^3 - a\gamma = b, \text{ or } \gamma^3 = a\gamma + b = 4b + \delta$$

Whence . . . $a\gamma = 3b + \delta$, or $a = \frac{3b + \delta}{\gamma}$,

Or . . . . . $a = \frac{3b + \delta}{\sqrt[3]{(4b + \delta)}}$, or $a^3 = \frac{(3b + \delta)^3}{4b + \delta}$;

Or by division, $\frac{a^3}{27} = \frac{b^2}{4} + \frac{\frac{1}{4}b^2\delta + 9b\delta^2 + \delta^3}{27(4b + \delta)}$.

Consequently $\frac{a^3}{27} > \frac{b^2}{4}$; that is, when the three roots are real, the equation falls under the irreducible case.

Again, conversely, when $\frac{a^3}{27} > \frac{b^2}{4}$, the equation will have three real roots.

Let $\frac{a^3}{27} - \frac{b^2}{4} = d$, it remains to be shown, that such a value of δ may be found as will make

$$d = \frac{\frac{1}{4}b^2\delta + 9b\delta^2 + \delta^3}{27(4b + \delta)}$$

Or . . . . $\delta^3 + 9b\delta^2 + (\frac{1}{4}b^2 - 27d)\delta = 108bd$,

in which latter form it is obvious, that the equation in δ must

necessarily have, at least, one positive root; whence, since $y^3 = 4b + \delta$, and δ is a positive quantity, we have $y^3 > 4b$; but when $y^3 > 4b$, the three roots of the equation are real; that is, when $\frac{a^3}{27} > \frac{b^2}{4}$, then also $y^3 > 4b$, and therefore the three roots of the equation are all real quantities.

Solution of the Irreducible Case in Cubic Equations.

22. From the preceding part of this article it appears, that every cubic equation of the form $x^3 - ax = b$, is in the irreducible case, when $\frac{1}{27}a^3 \geq \frac{1}{4}b^2$. Now this equation is readily reduced to another dependent equation, in which the co-efficient of the second term is unity, as $y^3 - y = c$. This is done by assuming $x = \frac{y}{z}$, then the original equation becomes

$$\frac{y^3}{z^3} - a\frac{y}{z} = b.$$

Or, multiplying by z^3, $y^3 - az^2y = bz^3$.

Now make $az^2 = 1$, or $z = \frac{1}{a^{\frac{1}{2}}}$, which substituted for z in the absolute quantity bz^3, gives $y^3 - y = \frac{ba^{\frac{1}{2}}}{a^2}$.

Or, writing $\frac{ba^{\frac{1}{2}}}{a^2} = c$, we have $y^3 - y = c$.

And the value of y being found in this equation, that of x in the original one becomes known, because $x = \frac{y}{z} = a^{\frac{1}{2}}y$.

Now the original equation being, by hypothesis, of the irreducible case, the transformed equation must necessarily be so likewise, and consequently $\frac{c^2}{4} < \frac{1}{27}$, or $c < \frac{2\sqrt{3}}{9}$, or $c < .38491$; assuming this, therefore, as the maximum value of c, we find the greatest value of y can never exceed 1·1549, nor can the least value of it be less than unity; so that all the possible values of y lie between the limits 1 and 1·1549; and if, therefore, we have a table containing all the values of c to those of the several values of y, between the above limits, we shall have by inspection the solution of every equation of the irreducible case, when converted into the form $y^3 - y = c$; and hence also of every irreducible equation of the form $x^3 - ax = b$. Table iv. is of this description; the values of y, from 1 to 1·1549, being arranged in the leading columns, except the last digit, which is found in the upper horizontal line, and the respective values of c are found in the other corresponding columns, being precisely the form usually given to the common

tables of logarithms; and the finding of any value of y, corresponding to any proposed value of c, is performed exactly the same as finding the natural number to any given logarithm.

The values of y, it will be observed, are given to five places of figures, and those of c to eight places of figures, and by means of which, therefore, the value of y, corresponding to any proposed value of c, may be found true to the 5th place by inspection only, and these may be extended to 8 or 9 places *true*, by taking proportional parts as in the logarithmic tables.

As an example, let it be proposed to find the value of y in the equation $y^3 - y = \cdot 3837$.

The nearest tabular number to ·3837 is ·38369912, and the corresponding value of y is 1·1543, which is true to the last place; and in the same manner, it is obvious, that the value of y, answering to any other value c, may be found by inspection to the same extent; and these five places, when necessary, are readily carried to 8 or 9 places by proportion, as follows.

Find the next greater and the next less tabular numbers to that proposed; then say

As the difference between the tabular numbers
Is to ·0001, the difference of the two tabular values of y,
So is the difference between the less tabular number and that proposed
To a fourth proportional.

Which latter, being added to the least tabular value of y, will give the answer true, at least, to eight places of figures.

That this proportion may be depended upon to the extent stated, may be shown as follows.

Since the table always gives five figures true by inspection, the correction, or part to be found by proportion, is always less than ·0001, or less than the $\frac{1}{10000}$dth part of y. Now if a and b are both very small with regard to a third quantity y, the following proportion will very nearly obtain, viz.

$$\{[(y+a)^3 - (y+a)] - (y^3 - y)\} :$$
$$\{[(y+b)^3 - (y+b)] - (y^3 - y)\} :: a : b$$

for by rejecting those powers of a and b higher than the first, the proportion becomes precisely

$$(3y^2 - 1)a : (3y^2 - 1)b :: a : b$$

and as a and b are in the present case always less than ·0001, (or at least can never exceed this,) by rejecting the squares and cubes of these quantities, we cannot have affected the fourth place of figures in the result, or, which is the same, the 8th place of decimals.

23. Hence is deduced the following rule for every irreducible cubic equation, $x^3 - ax = b$.

Assume $c = \frac{b\sqrt{a}}{a^2}$, *and find the result in table* iv. *as above*

described, and hence find the corresponding value of y; so shall $y\sqrt{a}$ *be the value of x in the original equation.*

Ex. 1. Required the value of x in the equation $x^3 - 9x = 10$.

Here $\frac{b\sqrt{a}}{a^2} = \frac{10 \cdot 3}{81} = \frac{30}{81} = \cdot 37037037$.

Gt. tab. N°.	·37057828	$y = 1 \cdot 1499$;	given N°.	·37037037			
Next less	·37028164	$y = 1 \cdot 1498$	next less	·37028164			
As . .	·00029664	:	·0001	::	·0000873	:	·00002991

Therefore . . . . . $y = 1 \cdot 14982991$
Multiply . . . . $\sqrt{a} = 3$
Whence . . . . . $x = 3 \cdot 44948973$ as required.

Ex. 2. Required the value of x in the equation $x^3 - x = \frac{1}{3}$.

Here the equation requires no reduction, c being $= \cdot 33333333$.

Gt. tab. N°.	·33345415	$y = 1 \cdot 1372$;	given N°.	·33333333			
Next less	·33316622	$y = 1 \cdot 1371$	next less	·33316622			
As . . .	·00028793	:	·0001	::	·00016711	:	·00005804

Whence . . . . . $x = 1 \cdot 13715804$.

Ex. 3. To find x in the equation $x^3 - 3x = 1$.

Here $\frac{b\sqrt{a}}{a^2} = \frac{\sqrt{3}}{9} = \cdot 19245009$.

Gt. tab. N°.	19254233	$y = 1 \cdot 0851$;	given N°.	19245009			
Next less	19228913	$y = 1 \cdot 0850$	next less	19228913			
As . .	·00025320	:	·0001	::	·00016096	:	·00006357

Therefore $y = 1 \cdot 08506357$; which multiplied by $\sqrt{3}$, gives $x = 1 \cdot 87938524$.

Ex. 4. Find the value of x in the equation $x^3 - 7x = 6$.

First, $\frac{6\sqrt{7}}{7^2} = \cdot 32396954$.

Gt. tab. N°.	·32398835	$y = 1 \cdot 1339$;	given N°.	·32396954			
Next less	·32370267	$y = 1 \cdot 1338$	next less	·32370267			
As . . .	28568	:	1	::	26687	:	9342

Therefore . . . . . $y = 1 \cdot 13389342$
Multiplied by . . $\sqrt{7} = 2 \cdot 6457513$
Gives . . . . . $x = 2 \cdot 999999999$

as will be found by the operation, which is correct to the 10th figure, the real answer being 3, as is obvious.

These examples are quite sufficient for illustrating the use of the table, and for convincing the reader of the great facility of this method of solution, when compared with any other that he can adopt, for obtaining the root to the same number of places; we shall, therefore, dwell no longer upon the subject

in this place, except to observe, that the same method applies to equations of the form $x^3 - ax = -b$; only in this case, the root obtained is the negative one, instead of being, as in the former case, positive.

We may also farther observe, that having found one of the roots of the cubic equation $x^3 - ax = \pm b$, if we call this root r, the other two roots will be obtained from the formula

$$x = -\frac{r}{2} \pm \sqrt{\left(\frac{r^2}{4} \mp \frac{b}{r}\right)}$$*

This table is also of frequent use in the solution of biquadratic equations by Euler's method.

ON THE APPROXIMATION TO THE ROOTS OF NUMERICAL EQUATIONS.

24. As the first four tables of the present work may be very advantageously employed in the solution of numerical equations, it will be proper, before we proceed to illustrate the uses of the subsequent tables, to bestow a few pages on this subject, including an account of the several methods which have been proposed by different authors for the accomplishment of this important object.

But first let us give a brief abstract of the several general properties of equations, as regard the number and limits of their roots, the composition of their co-efficients, &c.

25. *Properties of Equations.*

1. Every equation of the general form

$$x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. + K = 0$$

has m roots, real or imaginary, and may be supposed to be formed by the continued product of m factors,

$$(x - \alpha)(x - \beta)(x - \gamma)(x - \delta)\ \&c. = 0$$

where $\alpha, \beta, \gamma, \delta$, &c. are the roots of the equation.

2. The imaginary roots of an equation always enter in pairs, and if $a + b\sqrt{-1}$ be one of those roots, $a - b\sqrt{-1}$ will be another; so that the sum of every pair of them is a real quantity, and the square of their difference a real negative quantity.

3. Since every equation,

$$x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. + K = 0$$

is composed of the factors

$$(x - \alpha)(x - \beta)(x - \gamma)(x - \delta)\ \&c.$$

* This method of solution I first published in No. 11. of Leybourn's *Mathematical Repository.*

it is obvious, that if, by any means, one of those roots, as a, can be found, the original equation may be divided by $(x - a)$, and the equation thence reduced to another of lower dimensions.

4. If we suppose the signs of each of the roots of an equation to be changed, the co-efficient of the second term of that equation will be equal to the sum of all those roots so changed; the co-efficient of the second term equal to the sum of all the products that can be formed with them, taken two and two at a time; the co-efficient of the third term equal to the sum of all the products that can be formed with them, taken three and three at a time; and so on to the absolute term, which is equal to the product of all the roots.

5. If by substituting any two numbers, A and A', instead of the unknown quantity of any equation, two results be obtained with contrary signs; one, or some odd number of the real roots of the equation, is contained between these two limits.

6. And, conversely, if two numbers be substituted for the unknown quantity of an equation, which comprise between them any odd number of the roots of that equation, the results thus obtained must necessarily have different signs. But if two, or any even number of roots be comprised between those limits, then no change of signs will take place in the results.

7. Therefore, when we substitute for the unknown quantity of an equation the several terms of the progression, 0, 1, 2, 3, &c. it will furnish us with the integral limits of all the real positive roots of that equation, provided it have not any that differ from each other by a quantity less than unity, or if it have any odd number of such roots; but if two, or any even number of its roots be comprised between two consecutive integers, then these substitutions will not enable us (at least not by the change of sign) to discover the integral limits between which they are comprised.

8. But if we substitute for the unknown quantity the several terms of the progression, 0, Δ, 2Δ, 3Δ, &c. Δ being supposed less than the difference of any two of the real roots of the equation, then the limits of every real positive root will be indicated by the several changes of sign in the respective results.

9. If in an equation, whatever real value be substituted for the unknown quantity, the result is always positive; it is certain that all the roots of that equation are imaginary.

10. The signs of all the roots of an equation may be changed from positive to negative, and from negative to positive, by changing the signs of the alternate co-efficients, viz. the 2d, 4th, 6th, &c.; and hence the finding the real roots of any equation is reduced to that of finding positive roots only.

11. Every equation of an odd degree has, at least, one real

root, which will be positive, if the last term be negative, or negative if that term be positive.

12. Every equation of even dimensions, having its last term negative, has at least two real roots, one positive and the other negative; but if the last term be positive, it furnishes us with no means of judging of the nature of the roots.

13. The first term of an equation having (as we have supposed throughout) unity for its co-efficient, its greatest positive root will be less than the greatest negative co-efficient, *plus* 1.

14. And the absolute term of an equation, being divided by the sum of that term, and the greatest co-efficient having a contrary sign, will give a limit less than the least root of that equation.

For a more accurate method of finding the limits of the roots of an equation, see prop. 2. page 41.

15. An equation, having unity for the co-efficient of its first term, and integral co-efficients for all its others, cannot have a fractional root, viz. its roots must be either integral, or irrational, or imaginary.

16. An equation cannot have more real positive roots than there are variations in the succession of the signs of its co-efficients, nor more real negative roots than there are permanencies of signs.

Therefore, when all the roots of an equation are real, there are precisely as many positive roots as there are variations, and as many negative roots as there are permanencies.

17. When any term of an equation is wanting, or has its co-efficient equal to zero, and the preceding and following term have the same signs, the equation has necessarily some imaginary roots.

These properties, the demonstrations of which are given by different algebraical authors, may frequently be advantageously consulted in determining the nature and limits of the roots of equations, in all the several methods of approximation which we are about to explain.

Different Methods of Solution.

26. It appears that Vieta was the first who attempted the general resolution of equations, in his treatise *De Numerosa potestatum Adfaectarum Resolutione*, where he shows how the roots of equations may be extracted, by a method analogous to that employed in the extraction of the roots of numbers; but as even the latter operation is attended with much labour and difficulty, it is obvious, that when the quantity is more involved with different powers of the unknown root as in the case of

equations, it becomes a mere abstract rule, totally useless in practical cases; and it has been accordingly abandoned since the latter end of the 17th century, notwithstanding the endeavours of Harriot, Oughtred, Pell, and some others, to simplify its operations.

Newton's Method of Approximation.

27. The next method in order of time was that given by Newton in Wallis's *Algebra*, published in 1685, as also in his *Method of Fluxions:* his rule for this purpose is as follows.

Take a value of the root, as near as may be, by trials or otherwise, and either in excess or defect; then, assuming another letter to denote the unknown difference between this and the true value, substitute into the original equation the sum or difference of this approximate value and the unknown quantity, which will produce a new equation, having the new small difference for its root; and find by any means the root, or an approximation towards the root, of this equation.

Assume, then, another letter for the still smaller difference between the approximate root and the true root of this last equation, and find the root of the new equation, thence deduced, in the same manner as before. Proceeding thus, as far as may be thought necessary, the several near or approximate values of these successive equations, connected together with their proper signs, will form a series approaching nearer and nearer to the true root of the original equation.

As to the approximate roots of the several equations, they may, as is observed above, be found in any manner that presents itself; but Newton finds them by rejecting in each equation all the powers above the first, which being by the supposition very inconsiderable, are supposed to effect the result only in a small degree.

To explain this by an example, let there be proposed the equation $x^3 - 2x - 5 = 0$. It is obvious here, that $x = 2$ nearly.

Assume, therefore, $x = 2 + p$; then

$$\begin{array}{rl} x^3 = & 8 + 12p + 6p^2 + p^3 \\ -2x = & -4 - 2p \\ -5 = & -5 \\ \hline \text{Whence} \quad 0 = & -1 + 10p + 6p^2 + p^3 \end{array}$$

Therefore $p = \frac{1}{10} = \cdot 1$ nearly; that is, by rejecting all the powers of p above the first.

Our new equation is, therefore, $p^3 + 6p^2 + 10p - 1 = 0$; in which we assume $p = \cdot 1 + q$, then

$$\begin{array}{rrrrrr} p^3 = & 0{\cdot}001 & + & 0{\cdot}03q & + 0{\cdot}3q^2 & + q^3 \\ + 6p^2 = & 0{\cdot}06 & + & 1{\cdot}2\ q & + 6{\cdot}\ q^2 & \\ + 10p^2 = & 1{\cdot} & + & 10{\cdot}\ q & & \\ - 1 = & -1 & & & & \end{array}$$

Whence $0 = 0{\cdot}061 + 11{\cdot}23q + 6{\cdot}3q^2 + q^3$

And $q = \frac{-0{\cdot}061}{11{\cdot}23} = -0{\cdot}0054$ nearly.

Our new equation is now, therefore,

$$q^3 + 6{\cdot}3q^2 + 11{\cdot}23q + 0{\cdot}061 = 0;$$

in which we assume $q = -0{\cdot}0054 + r$. And proceeding in the same manner with this, we find $r = -0{\cdot}000048517$.

Whence $x = 2 + p + q + r$
$= 2 + 0{\cdot}1 - 0{\cdot}0054 - 0{\cdot}00004853$
$= 2{\cdot}09455147$ the root required.

Raphson's Method.

28. This differs very little in principle from that of Newton's; though it does not appear that its author was aware of the connexion between the two, as there is no mention of Newton's rule in the account of his own method published in his work entitled *Analysis Æquationum Universalis*. London, 1690.

This consists in first finding an approximate root, as in the preceding case, and thence also deriving the first correction in precisely the same manner. After which, instead of the successive equations which arise in Newton's rule, we here make use of the difference thus found to correct our first assumption, and which new approximate value is substituted in the original equation, and a new correction obtained, and so on to any degree of accuracy required. In this way, as we never use more than the first power of the unknown quantity, except in the original equation, they need not appear in the calculation, which saves a considerable portion of labour in the operation.

Let us again, for example, propose the same equation,

$$x^3 - 2x - 5 = 0.$$

Assume $x = 2 + p$; then

$$\begin{array}{rrrr} x^3 = & 8 & + 12p, & \text{&c.} \\ - 2x = & -4 & - 2p & \\ - 5 = & -5 & & \end{array}$$

Hence $0 = -1 + 10p$, or $p = 0{\cdot}1$, or $x = 2{\cdot}1$ nearly.

Assume, now, $x = 2{\cdot}1 + q$; then

$$\begin{array}{rcl} x^3 = & 9{\cdot}261 + 13{\cdot}23q, \text{ &c.} \\ -2x = & -4{\cdot}2 \quad -2{\cdot}\ q \\ -5 = & -5 \end{array}$$

Whence $0 = {\cdot}061 + 11{\cdot}23q$, or $q = -{\cdot}0054$.

Therefore $x = 2{\cdot}1 - {\cdot}0054 = 2{\cdot}0946$ nearly.

Assume again $x = 2{\cdot}0946 + r$. And we find, in the same manner, $r = -{\cdot}00004853$; and consequently $x = 2{\cdot}09455147$ as before.

29. This rule may be otherwise exhibited by means of the following general formula.

Let $x^n + ax^{n-1} + bx^{n-2} + cx^{n-3} + \text{&c.} = 0$, be any proposed equation, of which r is an approximate root, then will

$$x = \frac{(n-1)\,r^n + (n-2)\,ar^{n-1} + (n-3)\,br^{n-2} + (n-4)\,cr^{n-3} + \text{&c.}}{nr^n - 1 + (n-1)\,ar^{n-2} + (n-2)\,br^{n-3} + (n-3)\,cr^{n-4} + \text{&c.}}$$

nearly. See art. 11 table viii. of Algebraical formulæ.

Approximation by Position.

30. Another method of approximation, which is frequently very commodious in practice, is by the rule of double position, the principle of which is as follows.

Assume two numbers, as near the true root as possible, and find the error arising from the substitution of each of these quantities, instead of the unknown quantity in the proposed equation; then say

As the difference between the two errors
Is to the difference of the suppositions,
So is either error
To the correction of the corresponding supposition.

Assuming again this new value of the unknown quantity, and another differing from it only by a unit in the last place, and greater or less according as this is found too small or too great, proceed to find a new correction, and so on to any degree of accuracy required.

This rule depends upon nearly the same principles as Newton's, viz. by rejecting all the powers of the correction above the first, in which case the proportion above stated exactly obtains.

Suppose, for example, we have

$$x^m + ax^{m-1} + bx^{m-2} + cx^{m-3} + \text{&c.} = 0.$$

Assuming $x + r$ and $x - s$, instead of x we have

$$(x + r)^m + a(x + r)^{m-1} + b(x + r)^{m-2} + \&c. = w$$

$$(x - s)^m + a(x - s)^{m-1} + b(x - s)^{m-2} + \&c. = v$$

w and v being the excess or defect arising from these suppositions. The difference of which, using only the first two terms of the expansion of each term, is

$$m(r+s)x^{m-1} + a(m-1)(r+s)x^{m-2} + b(m-2)(r+s)x^{m-3} + \&c.$$

which has obviously the same ratio to $(r + s)$ as

$$mrx^{m-1} + a(m-1)rx^{m-2} + b(m-2)rx^{m-3} + \&c.$$

has to r, or as

$$msx^{m-1} + a(m-1)sx^{m-2} + b(m-2)sx^{m-3} + \&c.$$

has to s.

Let us take, by way of example, the same equation as in the former case, viz. $x^3 - 2x - 5 = 0$.

Here it is soon found that x lies between 2 and 3. Assume, therefore, ... $2 = x = 3$.

Then	$8 =$	$x^3 =$	27
	$-4 =$	$-2x =$	-6
	$-5 =$	$-5 =$	-5
	-1	errors	$+16$
	16		

As 17 : 1 :: 1 : ·06

Whence . . . . . $2 + ·06 = x = 2·06$.

Assume, now, . . $2·06 = x = 2·07$.

Then	$8·741816 =$	$x^3 =$	$8·869743$
	$-4·12 =$	$-2x =$	$-4·14$
	$-5· =$	$-5 =$	-5
	$-·378184$	errors	$-·270257$
	$-·270257$		

·107927 : ·1 :: ·270257 : ·0250

Whence . . . . . $x = 2·07 + ·0250 = 2·095$.

Assuming again $x = 2·095$, and $x = 2·094$, and working with these numbers in the same manner, the correction for the latter number will be found ·0005513, which makes $x = 2·0945513$, nearly the same as before.

Lagrange's Method of Approximation.

31. All the preceding methods of approximating towards the

roots of numerical equations, (though they may be advantageously employed in the generality of cases that occur in practice,) are sometimes defective; that is, instead of converging towards any particular root, they may sometimes diverge from it, and approximate towards another root of the same equation; then again towards the first, and thus oscillating as it were between two different roots, furnish no result in such cases that can be depended upon. And as we cannot always judge from the appearance of an equation when these anomalies will take place, it has long been a desideratum with mathematicians to possess a method of approximating towards the real roots of an equation, when it has such, and of detecting the imaginary roots when they are imaginary. This has been effected by Lagrange, in a memoir published first in the Berlin Transactions for the year 1767, and afterwards considerably enlarged in his work entitled *De la Resolution des Equations Numeriques.*

It must be observed, however, that though this method really possesses all the accuracy that can be desired, it is still attended with so much laborious calculation, as to render it almost useless in those cases where it is most necessary to employ it, viz. in the higher order of equations, a defect of which its author seems to have been so well aware, that he has not throughout his quarto work of 268 pages attempted the solution of any equation above a cubic, where his method is not necessary, as we have both for cubic and biquadratic equations direct methods of solution, which are far less laborious than the one which he proposes; still, however, as this work displays very profound analytical knowledge and research, and undoubtedly contains the true theory of numerical equations, it may be interesting to the reader to have a brief abstract of the principles upon which it depends. These may be stated as follows.

1. If in any equation two numbers can be found, which when substituted for the unknown quantity produce results with contrary signs, there will be at least one real root of the equation contained between these two limits.

2. And, conversely, if in any equation having real and unequal roots, we substitute successively for the unknown quantity two numbers, the one greater and the other less than one of the roots of the equation, and which at the same time differ from each other by a quantity less than the difference of this root, and each of the other roots of the equation, or, which is the same, such that only one root of the equation is contained between them; these substitutions will necessarily give results with contrary signs.

3. If, therefore, in any equation we know the least difference of any two of its roots, or a quantity less than the least difference, and call it Δ, it is obvious, that by substituting suc-

cessively for the unknown quantity the terms of the progression, 0, Δ, 2Δ, 3Δ, 4Δ, &c. we must necessarily have as many changes of signs in the results as there are real positive roots in the proposed equation; and when Δ is less than unity, we shall also have the nearest integer to each of these roots: thus, for example, if one root is found to be between $m\Delta$ and $(m+1)\Delta$, and k is the nearest integer to $m\Delta$, then will k also be the nearest less integer to that root. And if Δ be greater than unity, then substituting, instead of the above progression, the natural progression 0, 1, 2, 3, 4, &c. we shall also, in this case, have the nearest integer less than each of the positive roots of the proposed equation. And since the signs of the roots of an equation may be changed from minus to plus, it is obvious, that we may also in the same manner find the limits of the negative roots, provided we have previously found a quantity less than, or equal to, the least difference of any two roots of that equation; for which purpose we must proceed according to the following proposition.

Prop. 1. Having given any equation

$$x^m - Ax^{m-1} + Bx^{m-2} - Cx^{m-3} + \&c. = 0 \quad (A)$$

it is required to find another equation whose roots shall be the differences between the several roots of the original equation, viz. supposing the roots of the equation (A) to be $\alpha, \beta, \gamma, \delta$, &c. it is required to find an equation whose roots shall be

$$(\alpha - \beta), (\alpha - \gamma), (\alpha - \delta), \&c.$$
$$(\beta - \alpha), (\gamma - \alpha), (\delta - \alpha), \&c.$$

In the first place, it is obvious, that the roots of this new equation will consist of several pairs of equal roots with contrary signs, as $(\alpha-\beta), -(\alpha-\beta)$ &c. and farther, that the number of them will be $m(m-1)$, that is, it will be equal to the number of combinations that can be formed out of m things, taken two and two at a time; or we may otherwise consider it as consisting of $\frac{m(m-1)}{2}$ roots, each of which is the square of the difference of the roots of the proposed equation; viz. whose roots are $(\alpha-\beta)^2, (\alpha-\gamma)^2, (\alpha-\delta)^2$, &c. This equation may be formed by the following substitutions.

Let $(\alpha-\beta)^2 = v$, $\frac{m(m-1)}{2} = n$; make also

$$A_1 = A$$
$$A_2 = AA_1 - 2B$$
$$A_3 = AA_2 - BA_1 + 3C$$
$$A_4 = AA_3 - BA_2 + CA_1 - 4D$$
$$\&c. \ \&c.$$

Again, $a = mA - 2\frac{\binom{A}{1}^2}{2}$.

$$a = mA - 4AA + 6\frac{\binom{A}{2}^2}{2}.$$

$$a = mA - 6AA + 15AA - 20\frac{\binom{A}{3}^2}{2}.$$

&c. &c.

And generally $a = mA - 2\mu AA + \frac{2\mu(2\mu-1)}{1.2}AA - \&c.$

$$\pm\frac{2\mu(2\mu-1)(2\mu-2)\ldots(\mu-1)}{1.2.3\ldots\ldots\mu}\cdot\frac{\binom{A}{\mu}^2}{2}.$$

And lastly, $\ldots a = a$

$$b = \frac{aa - a}{2}$$

$$c = \frac{ba - aa + a}{3}.$$

$$d = \frac{ca - ba + aa - a}{4}.$$

&c. &c.

So shall $v^n - av^{n-1} + bv^{n-2} - cv^{n-3} + \&c. = 0$ (B) be the equation required; that is, the roots of this equation are equal to the squares of the differences of the roots of the original equation; and our object is, therefore, now to find a quantity less than, or equal to, the least real root of this equation; but first it may be proper to observe:

1. That if r be taken to represent the number of real roots in the original equation, (A), and s the number of its imaginary roots, then $\frac{r(r-1)}{2}$ will be the number of positive roots in the equation of differences, (B); and $\frac{s}{2}$ will be the number of its negative roots, and the rest of the roots will be imaginary.

This is obvious, because the differences which arise from the (r) real roots will be in number $r(r-1)$; but these consisting of pairs of roots are reduced to $\frac{r(r-1)}{2}$, which will be the squares of those differences; which differences being real, their squares will be positive.

With respect to the imaginary roots of the equation, it is known, that they always enter in pairs, and that if $m + n\sqrt{-1}$ be one imaginary root, $m - n\sqrt{-1}$ will be another; and

consequently their difference, $2n\sqrt{-1}$, squared, will be $-4n^2$; that is, it will be a real negative root: and it is obvious, that the number of them will be equal to half the number of imaginary roots in the original equation. As to the other differences, viz. between the real and imaginary roots, as also between the dissimilar imaginary roots, they must necessarily consist of a quantity partly real and partly imaginary, and consequently their squares will still be of an imaginary form.

2. If the equation (A) have one, or many pairs of equal roots, the equation (B) will necessarily have so many of its roots equal to zero, and will therefore be divisible by such a power of v as is equal to the number of such pairs of equal roots; or, which is the same, the equation will want so many of its latter terms. This division being made, the reduced equation will contain the squares of the differences of all the unequal roots of the original equation.

Prop. 2. To find a limit less than the least positive root of any proposed equation.

Let $1 + \alpha v + \beta v^2 + \gamma v^3 \ldots\ldots \pi v^n = 0$ (C)

be the proposed equation.

Make $v = \frac{1}{y}$, which substituted for v, and multiplying by y^n, becomes

$$y^n + \alpha y^{n-1} + \beta y^{n-2} + \gamma y^{n-3} \ldots \pi = 0 \quad \text{(D)},$$

and the greatest positive root of this equation will obviously be the reciprocal of the least root of the equation (C).

We have several methods of finding the limit of the greatest root of any proposed equation, but that of Newton's is perhaps the most general and complete, which is as follows.

Substitute $y + l$ instead of y, in the equation (D), and it will assume the form $P + Qy + Ry^2 + Sy^3 + \&c. + y^n = 0$ in which

$$P = l^n + \alpha l^{n-1} + \beta l^{n-2} + \gamma l^{n-3} + \&c. + \pi.$$

$$Q = nl^{n-1} + (n-1)\alpha l^{n-2} + (n-2)\beta l^{n-3} + \&c.$$

$$R = \frac{n(n-1)}{2} l^{n-2} + \frac{(n-1)(n-2)}{2} \alpha l^{n-3} + \&c.$$

$$S = \frac{n(n-1)(n-2)}{2 \cdot 3} l^{n-3} + \&c.$$

&c. &c.

And it now only remains to search such a value of l, as being substituted in the quantities P, Q, R, S, &c. will render them all positive; which by beginning at the last of those quantities, consisting of only two terms, and proceeding successively to all the others, we shall readily find the least value of l that will answer this condition, and which will obviously be a limit greater than the greatest of the roots of the

proposed equation; for by diminishing each of the roots by this quantity, we have rendered all the roots negative, or, which is the same, all the co-efficients positive.

Since, then, we have found $l > y$, we have $\frac{1}{l} < v$, and consequently $\frac{1}{\sqrt{l}} < \sqrt{v}$, or $< (\alpha - \beta)$; that is, we have found a quantity less than the least difference of any two roots of the proposed equation (A).

If, now, this difference be greater than unity, we may substitute in the proposed equation, instead of the unknown quantity, the several terms of the progression 0, 1, 2, 3, 4, &c. which will show, by the change of signs in the several results, the limits between which each of the real positive roots of the proposed equation lie, and consequently the nearest less integer to each.

But if $\frac{1}{\sqrt{l}}$, or Δ, be less than 1, then we must substitute the several terms of the progression 0Δ, 1Δ, 2Δ, 3Δ, 4Δ, &c. which will also point out the limits of the real positive roots, and the nearest integer to each of them.

Having thus found the limits of the positive roots of the equation, we may, by changing the signs of all its roots, find in the same manner the limits of the negative roots; after which, the farther approximation may be effected as follows.

Prop. 3. Having given the nearest integer less than each of the positive roots of any equation,

$$Ax^m + Bx^{m-1} + Cx^{m-2} + \&c. + K = 0 \quad (a)$$

to approximate towards each of these roots to any degree of accuracy required.

Let p represent the nearest integer to one of these roots, make $x = p + \frac{1}{y}$, and substitute this value for x in the proposed equation. And we shall have, after multiplying the resulting equation by y^m, and arranging the terms according to the powers of y,

$$A'y^m + B'y^{m-1} + C'y^{m-2} + \&c. + K' = 0 \quad (b)$$

And since by the hypothesis $\frac{1}{y} > 0$ and < 1, we shall have $y > 1$; therefore the equation (b) will have, at least, one real root greater than unity.

Find, therefore, by the preceding methods, the nearest integer to this root, which let be q, and make $y = q + \frac{1}{z}$; this being substituted for y, and the resulting equation multiplied by z^m, will give

$$A''z^m + B''z^{m-1} + C''z^{m-2} + \&c. + K'' = 0,$$

and which will also have at least one real root greater than unity.

Substitute again $x = r + \frac{1}{u}$, and we shall in the same manner obtain an equation in u, which will also have one real positive root greater than unity, and so on. Whence, by continuing thus the successive substitutions, we shall approach nearer and nearer to the true root of the proposed equation; that is, the root will be exhibited under the form of a continued fraction, thus,

$$x = p + \frac{1}{q + \frac{1}{r + \frac{1}{s} + \&c.}}$$

which continued fraction, being converted into a series of converging fractions, by the known rules, will give so many successive approximations towards the true root, but alternately greater and less. Each fraction, however, will be nearer the real root than any preceding fraction, and nearer than any other fraction expressible in less terms. The formulæ for converting any continued fraction into a series of converging fractions may be given as follows.

Quot. p, q, r, s, &c.

Fract.* $\frac{p}{1} + \frac{pq+1}{q} + \frac{r(pq+1)+p}{qr+1} + \frac{s[r(pq+1)+p]+pq+1}{s(qr+1)+q}$, &c.

We shall only farther observe, that if the proposed equation (a) have but one real root contained between the integers p and $p + 1$, the resulting equation (b) can have but one real root greater than unity; but if the proposed equation have two or more roots contained between the limits p and $p + 1$, then the resulting equation (b) will have two or more real roots greater than unity, and we shall thus find $x = p + \frac{1}{y}, p + \frac{1}{y'}, p + \frac{1}{y''}$, &c. And if also any two or more of these values of y are contained between the same two successive integers q and $q + 1$, we shall also have so many roots greater than unity in the resulting equation in z; we must, however, ultimately arrive at an equation having but one real positive root greater than unity; after which, the same must necessarily have place in all that follows, and the approximation may be continued at pleasure.

Having thus briefly explained the several principles of operation connected with this method of approximation, the whole may be condensed into the form of a rule, as follows.

1. Let $x^m - Ax^{m-1} + Bx^{m-2} - Cx^{m-3} + \&c. = 0$ be any proposed equation.

* For an investigation of the principal properties of continued fractions, see Barlow's Elementary Investigation of the Theory of Numbers.

2. Find by the formulæ given at *Prop.* 1. the equation of differences, $v^n - av^{n-1} + bv^{n-2} - cv^{n-3} + \&c. = 0$, and find by *Prop.* 2. a limit less than, or equal to the least positive root of this equation, and call this limit $\frac{1}{l}$, and $\frac{1}{\sqrt{l}} = \Delta$.

3. Substitute for the unknown quantity in the original equation, the several terms of the progression 0, Δ, 2Δ, 3Δ, 4Δ, if Δ be less than unity; or the series 0, 1, 2, 3, 4, &c. if Δ be greater than unity, which will furnish the limits of the several positive roots of the proposed equation, and consequently the nearest less integer to each.

4. Let p be this integer; make $x = p + \frac{1}{y}$, and in the resulting equation in y, make $y = q + \frac{1}{z}$, and in the resulting equation in z, take $z = r + \frac{1}{u}$, &c. &c. so shall

$$x = p + \frac{1}{q} + \frac{1}{r} + \frac{1}{s} + \&c.$$

be a continued fraction, approximating nearer and nearer towards the root of the proposed equation.

Such are the principles on which Lagrange has founded his method of approximating to the roots of numerical equations, and which is allowed on all hands to contain the true theory, and to display much profound analytical knowledge; but we ought not, notwithstanding, to deceive ourselves by supposing that it contains "all that can be desired on this subject," for, in fact, as to its practical application, it is of little or no use, in consequence of the laborious and embarrassing nature of the calculations which it involves. We have before observed, that in equations of the third and fourth degree, we have already a more direct process; and in equations of the 5th degree, the equation of differences rising to the 10th degree, the mere determination of the limits, although admitting of certain abbreviations which we cannot here explain, is excessively troublesome; after which, we have still the whole process of approximation to go through; it is therefore not improbable, looking to the liability of error in such long and intricate calculations, that in an equation not exceeding the 5th degree, and not selected for the purpose of fitting the rule, it would require the close application of two or three days to arrive at its several roots to any tolerable degree of accuracy; while, therefore, we admire the ingenuity which the author has displayed in establishing his theory, as well as in the demonstration of the several principles upon which it depends, we must still be allowed to repeat, that, so far as relates to practical cases, very little, if any thing, has been gained, and that Raphson's improve-

ment of Newton's method is still by far the most practicable and simple of any that has yet been invented, though it must be admitted, that there are some equations which it is difficult to solve in this way. These cases, however, will always discover themselves in the operation, and if there should be any which are absolutely irresolvable by that method, or some one analogous to it, (which, I believe, is not the case, provided the equation have one or more real roots,) then, and not till then, we may have recourse to Lagrange's method as a last resort, and in such cases, if any such there be, it will be found highly valuable.

We say nothing here of the method of approximation by recurring series, nor of those of Fontain and Budan, as they are still less practicable than that which has been described above; the reader who is curious on this head may find an account of the two former in Lagrange's treatise above quoted, and of the latter in Budan's work entitled *Nouvelle Méthode pour la Resolution des Equations Numeriques*, Paris, 1807. We shall only remark with regard to the latter, that it consists in a comparatively ready method of finding the co-efficients which arise in changing an equation into another whose roots are diminished successively by the numbers 1, 2, 3, &c. till we arrive at an equation whose co-efficients are all positive, which furnishes a limit to the root of the original equation. Suppose, for example, that the co-efficients arising from the substitution of $x - 9$ have some one or more of its co-efficients negative, but that $x - 10$ renders them all positive, then the value of x is between 9 and 10; find again the several results arising from the substitution of $x - 9{\cdot}1$, $x - 9{\cdot}2$, $x - 9{\cdot}3$, &c. and another limit will be found, and so on. The only defect of this method is, that the length of the calculation renders it totally impracticable.

Observations relating to the Principles of Newton's Method.

32. The principal defects of Newton's method of approximation, as improved by Raphson, are the three following, viz.

1. That by substituting for the unknown quantity the several terms of the progression 0, 1, 2, 3, &c. we may fail of detecting the integral limits of the real roots of the equation, viz. when there are two or any even number of roots comprised between two consecutive integers; because in this case there will be no change of sign; and when a change of sign takes place, we are still without the means of knowing whether there be one or any odd number of roots comprised between those limits.

2. That when the limits of any root have been found, and a substitution made, the result will not in all cases approximate towards that root.

3. That when the approximation is made towards any particular root, we have still no means of determining the exact

degree of approximation, or how many of the decimals thus obtained are to be considered as correct.

The first of these objections is by far the most important; for when no change of sign is observed in the result, it is always doubtful where the several roots of the equation may lie; and we can, therefore, only judge of our approximation towards them by the approximation of the results towards zero; but this may arise from another cause, viz. the approximation towards the real part of some of the imaginary roots, and consequently, when our results only approximate towards zero, and afterwards diverge without changing signs, there may, or may not, be some even number of real roots between those limits. This may be shown as follows.

Let $x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. = 0$ be any proposed equation, this may be put under the form

$$(x - \alpha)\ (x - \beta)\ (x - \gamma)\ (x - \delta)\ \&c. = 0$$

α, β, γ, δ, &c. being supposed the roots of the equation. In this product, if we substitute for x any one of those roots, as α, β, &c. the whole product will become zero, in consequence of $(\alpha - \alpha)$ or $(\beta - \beta)$ &c. becoming zero, that is

$$(\alpha - \alpha)\ (\alpha - \beta)\ (\alpha - \gamma)\ (\alpha - \delta),\ \&c. = 0$$
$$(\beta - \alpha)\ (\beta - \beta)\ (\beta - \gamma)\ (\beta - \delta),\ \&c. = 0$$

as is obvious.

But if we substitute for x the several terms of the progression 0, 1, 2, 3, &c. p, p', p'', p''', &c. p, p', p'', &c. being supposed to exceed each other by unity, then the products will take the form

$$(p - \alpha)\ (p - \beta)\ (p - \gamma)\ (p - \delta),\ \&c. = \varphi$$
$$(p' - \alpha)\ (p' - \beta)\ (p' - \gamma)\ (p' - \delta),\ \&c. = \varphi'$$
$$(p'' - \alpha)\ (p'' - \beta)\ (p'' - \gamma)\ (p'' - \delta),\ \&c. = \varphi''$$
$$(p''' - \alpha)\ (p''' - \beta)\ (p''' - \gamma)\ (p''' - \delta),\ \&c. = \varphi'''$$
$$\&c.\ \&c.\ \&c.$$

Now if no one root of the equation be contained within the limits p and p''', it is obvious, that each of these factors in the several products will continue with the same sign, as will, therefore, the several results φ, φ', φ'', φ''', &c. But if, on the contrary, one of these roots, and one only, as α, be contained between two of those quantities, as p'' and p''', that is, if α be greater than one but less than the other, then $(p'' - \alpha)$ and $(p''' - \alpha)$ will have contrary signs, while all the other factors will retain the same signs in both products, and consequently φ'' and φ''' will have contrary signs; and which change of signs could not have taken place in the results, had there not been a corresponding change in the signs of one of the factors.

But if we suppose two of the roots of the equation, as α and β, to be comprised within the limits p'' and p''', and only two, then the two first factors of the latter product will change signs, as $(p''' - \alpha)$ and $(p''' - \beta)$, and therefore their product will still have the same sign as $(p'' - \alpha)\ (p'' - \beta)$, and consequently also φ'' and φ''' will continue with the same sign; that is, no change of sign will be observed in the results, if two roots are interposed between the limits p'' and p'''. In the same manner, it may be shown, that if three factors, or any odd number of factors, change their signs, a corresponding change of sign will take place in φ'' and φ'''; but if an even number of factors change their signs, their product still retaining the same sign, the results φ'', φ''', will also retain the same signs. Whence we conclude, that if a change of sign is observed in the results, by substituting p, p', p'', p''', &c. for the unknown quantity in any equation, one or some odd number of roots are necessarily comprised within those limits; but if, on the other hand, an even number of roots are comprised within those limits, then no change of sign will take place, and therefore, without great care, they may be passed over unnoticed.

It is obvious, however, that in those cases, though no change of sign takes place in the results, they will approach nearly to zero, because the factors $(p'' - \alpha)\ (p'' - \beta)$, as also $(p''' - \alpha)$ and $(p''' - \beta)$, approach very nearly to zero: all four of them differing from 0 by less than unity; or, which is the same, each of these factors being less than unity. Unless, therefore, the other factors of the product be very large, the results φ'' and φ''' will become nearly equal to zero; and even in these cases they approach nearer to it than the preceding or subsequent results φ' and φ''.

This, therefore, would be a sufficient indication of roots being contained within those limits, was it not that the same circumstance may arise also from an approximation towards the real part of the imaginary roots; thus for example,

Assuming, again, our original equation

$$x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. = 0$$

of which let us suppose the real roots to be α, β, γ, &c. and its imaginary roots $a + b\sqrt{-1}$, $a - b\sqrt{-1}$, &c. then the above product will take the form

$$(x - \alpha)\ (x - \beta)\ \&c.\ (x^2 - 2ax + a^2 + b^2)\ \&c. = 0$$

and in which, substituting for x any one of those roots, whether real or imaginary, the whole product will become zero; but if we substitute instead of x a quantity approaching towards a, the product of the two imaginary roots $(x^2 - 2ax + a^2 + b^2)$ will approximate towards b^2; or if we substitute a for x, the product will become b^2, the least it can be, and consequently

the product will in this case approximate towards zero, as in the former case; but no change of sign will take place in the result, because whatever real quantity we substitute for x in the factor $(x^2 - 2ax + a^2 + b^2)$ it will necessarily remain positive.

It may, however, be observed, (repeating again our former products),

$$(p - \alpha)\ (p - \beta)\ (p - \gamma)\ (p - \delta), \text{ \&c.} = \varphi$$
$$(p' - \alpha)\ (p' - \beta)\ (p' - \gamma)\ (p' - \delta), \text{ \&c.} = \varphi'$$
$$(p'' - \alpha)\ (p'' - \beta)\ (p'' - \gamma)\ (p'' - \delta), \text{ \&c.} = \varphi''$$
$$(p''' - \alpha)\ (p''' - \beta)\ (p''' - \gamma)\ (p''' - \delta), \text{ \&c.} = \varphi'''$$

that if we observe our several results φ, φ', φ'', φ''', &c. to diminish, we must necessarily be approximating either towards a real root, or towards the real part of an imaginary root; for it is only one or the other of these circumstances that can diminish the values of φ, φ', φ'', φ''', &c. that is, supposing (as we have done all along) that the values of p, p', p'', p''', &c. increase; for this increase of p must render all those factors, into which a negative root enters, still greater, which would therefore increase the value of the result rather than diminish it; and this increase really happens in some cases, although the approximation is proceeding towards the real root of the equation.

Let us, for example, suppose the roots β, γ, δ, to be negative, and α positive, then our products are

$$(p - \alpha)\ (p + \beta)\ (p + \gamma)\ (p + \delta), \text{ \&c.} = \varphi$$
$$(p' - \alpha)\ (p' + \beta)\ (p' + \gamma)\ (p' + \delta), \text{ \&c.} = \varphi'$$

where it is obvious, that notwithstanding we may be approximating towards α, that is, although the factor $p' - \alpha$ may be less than the factor $p - \alpha$, yet all the other factors being greater, φ' may frequently increase; this, however, can only be to a certain limit, after which it will necessarily decrease and approach towards zero; and ultimately, in the case we have supposed, change signs, and point out the limits of the root α.

These remarks, though they do not obviate the objection to this rule, may be useful in guarding the practitioner against a too hasty conclusion, when any singularity is observed in the results obtained from the substitution of different numbers for the unknown quantity.

We have shown, that when a change of sign takes place, there is necessarily one, or some odd number of roots of the equation contained between the limits which produced that change of sign; and that when the several results converge towards zero, and afterwards diverge without changing signs, there must necessarily be some even number of real or imaginary roots between the limits that produced these results. In such a case we can do nothing but make a substitution, and see

whether the resulting value of the unknown quantity thus obtained fall within the same limits, and if it does, whether the new resultant be nearer to zero than before, in which case there is every reason to proceed in the operation; and if the several successive results continue to approximate towards zero, it will be obvious that we are approximating nearer and nearer to one of the real roots of the equation.

But if instead of our results converging towards zero they are found to diverge, then we may conclude with certainty that no real root of the equation is comprised within the limits we had supposed, and another attempt must be made, and the same process repeated, where the results are again observed to approximate towards zero.

This difficulty, however, can only occur in equations of even dimensions, for in those of odd dimensions some odd number of real roots must be comprised within the limits, which give contrary signs, and which, therefore, destroy all doubts with respect to the successive approximations.

With regard to the second objection, viz. "that the approximation may be made sometimes towards one root and sometimes towards another," it is by no means so important as the one we have been discussing. For it may be demonstrated, that it must be made either towards that root which is nearest to the supposition, or to that which is most remote from it.

Let $x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. = K$

be any equation of which p is an approximate root, substitute $x = p + z$, and we obtain,

$$x^m = p^m + mp^{m-1}z + \frac{m(m-1)}{1.2}p^{m-2}z^2 + \&c.$$

$$Ax^{m-1} = Ap^{m-1} + A(m-1)p^{m-2}z + A\frac{(m-1)(m-2)}{1.2}p^{m-3}z^2 + \&c.$$

$$Bx^{m-2} = Bp^{m-2} + B(m-2)p^{m-3}z + B\frac{(m-2)(m-3)}{1.2}p^{m-4}z^2 + \&c.$$

$$Cx^{m-3} = Cp^{m-3} + C(m-3)p^{m-4}z + C\frac{(m-3)(m-4)}{1.2}p^{m-5}z^2 + \&c.$$

&c. &c.

Or writing

$$x^m + Ax^{m-1} + Bx^{m-2} + Cx^{m-3} + \&c. = K$$

$$p^m + Ap^{m-1} + Bp^{m-2} + Cp^{m-3} + \&c. = L$$

$$mp^{m-1} + A(m-1)p^{m-2} + B(m-2)p^{m-3} + C(m-3)p^{m-4} + \&c. = M$$

$$\frac{m(m-1)}{2}p^{m-2} + A\frac{(m-1)(m-2)}{1.2}p^{m-3} + \frac{(m-2)(m-3)}{1.2}p^{m-4} = N.$$

&c. &c.

The preceding expression becomes

$$K = L + Mz + Nz^2 + Pz^3 + \&c.\ z^m. \quad (b).$$

Whence $z = \frac{K-L}{M} - \frac{Nz^2 + Pz^3 + \&c. + z^m}{M}$ in which form there

are necessarily m values of z, real or imaginary, which will produce an exact equality between those several values of z and the other side of the equation. Let the real values of z be z, z', z'', z''', &c. and let the several values of the function $Nz^2 + Pz^3 + \&c.\ z^m$ arising from the substitution of those values of z, z', z'', &c. be denoted by Z, Z', Z'', Z''', &c. then the above becomes

$$z = \frac{K-L}{M} - \frac{Z}{M}$$
$$z' = \frac{K-L}{M} - \frac{Z'}{M}$$
$$z'' = \frac{K-L}{M} - \frac{Z''}{M}$$
&c. &c.

Or, by transposing these,

$$\frac{K-L}{M} = z + \frac{Z}{M}$$
$$\frac{K-L}{M} = z + \frac{Z'}{M}$$
$$\frac{K-L}{M} = z'' + \frac{Z''}{M}$$
&c. &c.

Now, according to Newton's method, $\frac{K-L}{M}$ is taken for the value of z: it is obvious, therefore, that this is nearest to that value of z which, independent of its sign, renders the function Z the least, whether this be the least value of z or not. But it may be shown, that Z will be the least, only when z is the least or greatest; for since by the equation (b) we have

$$Mz + Z = K - L$$

a constant quantity, it is obvious that the less Z is, the greater z must be, when these quantities have the same sign; and, the less it must be, when they have contrary signs: therefore when Z is the least it can be, z will either be the least or greatest it can be; therefore the approximation being necessarily made towards that value of z which renders Z the least, it follows, that it must be made either towards the least or greatest value of z, that is, either towards that root which is nearest, or that which is most remote from the first supposition.

If the approximation be made towards the least value of Z, the same will happen in the next substitution, and we shall approach nearer and nearer to that root; and if it be made towards the greatest value of z, then the result of the next substitution will bring us again nearer to the one or the other of the two, till at length it will approximate towards the least value, after which it will continue to do so uniformly, and the value of that root may then be obtained to any degree of accuracy required.

When, therefore, it is said, as it is by some authors, that the approximation is sometimes made towards one root and sometimes towards another, it is clear that the assertion is much too unqualified, as it would lead a reader, who is not acquainted with the precise nature of the case, to imagine, that it may approximate towards any root whatever, and, therefore, that no satisfactory result is obtainable from the operation.

With regard to the third objection, respecting the real degree of approximation, it must be acknowledged that no precise rule can be laid down for this purpose: generally speaking, however, after the approximation is evidently directed towards any particular root, we seldom fail of doubling the number of figures employed in the supposition: this, therefore, or one figure less, may be stated as the limit. And if in any case it is a matter of importance to be certain in this respect, it will be sufficient to try another number in excess or defect, and differing only in unity in its last place; and if the results are obtained with contrary signs, it will be a proof that a root lies between them, and if not, another number, greater than the greatest, or less than the least, must be tried till the required change of sign is obtained.

If we repeat again our former equation (*b*), viz.

$$\text{K} = \text{L} + \text{M}z + \text{N}z^2 + \text{P}z^3 + \&\text{c.}\ z^m,$$

the value of z may be expressed by retaining the function $\frac{\dot{x}}{\dot{z}}$ in the denominator, thus

$$z = \frac{\text{K} - \text{L}}{\text{M} + \text{N}z + \text{P}z^2 + \&\text{c.}\ z^{m-1}}$$

of which denominator Newton retains only the first term, and his value of z will, therefore, be in defect or excess (independent of its sign) according as M and $(\text{N}z + \text{P}z^2 + \&\text{c.}\ z^{m-1})$ have different or like signs, the quantity of either being more or less, according as the value of the latter function is greater or smaller with regard to M.

This circumstance led me to consider whether it was not possible to discover a formula that should contain some part of this function in the denominator, so that the rejected part might be less with respect to that retained, and thereby to render the approximation more rapid and conclusive, which consideration led me to the following general formula, viz.

New Method of Approximation.

33. Let $x^n + ax^{n-1} + bx^{n-2} + cx^{n-3} + \&\text{c.} = w$, and let r be an approximate root, so that

$$r^n + ar^{n-1} + br^{n-2} + cr^{n-3} + \&\text{c.} = v.$$

then will

$$x = r + \frac{2r(w-v)}{(n-1)w + (n+1)r^n + (n-1)ar^{n-1} + (n-3)br^{n-2} + \&c.}$$

or,

$$x = r + \frac{2r(w-v)}{(n-1)v + (n+1)r^n + (n-1)ar^{n-1} + (n-3)br^{n-2} + \&c.}$$

using w or v according as r is integral or decimal, that is greater or less than unity; which reduces to the following forms for equations of the 3d, 4th, 5th, &c. degree.

Equations of the 3d degree.

1. $x = r + \frac{r(w-v)}{w \text{ or } v + 2r^3 + ar^2}$.

Equations of the 4th degree.

2. $x = r + \frac{2r(w-v)}{3w \text{ or } 3v + 5r^4 + 3ar^3 + br^2 - cr}$.

Equations of the 5th degree.

3. $x = r + \frac{r(w-v)}{2w \text{ or } 2v + 3r^5 + 2ar^4 + br^3 - dr}$.

As to the investigations of these formulæ, they depend upon principles precisely like those employed in art. 16 and 17, being, in fact, an extension of the general formulæ given in art. 1, tab. viii. for the extraction of the roots of numbers, and differing from Newton's only in the excess of the denominator. But still this excess being in most cases less than his defect, the approximation is carried on more rapidly, scarcely ever failing to double the number of figures every operation.

These formulæ have been already published in No. 12. *Leybourn's Mathematical Repository.*

Let us illustrate this method by a few examples.

Ex. 1. Given $x^3 - 2x = 5$.

Assume $r = 2$, then (by formula 1)

$r^3 = 8$		$2r^3 = 16$
$-2r = 4$		$w = 5$
$v = 4$		21 divisor
$w = 5$		
$w - v = 1$		
$r = 2$	whence	$\frac{1 \times 2}{21} = .094$.

Therefore $x = 2.094$ nearly.

Assume therefore $r = 2{\cdot}094$, then

$$\begin{array}{rl} r^3 = & 9{\cdot}181846584 \\ -2r = & 4{\cdot}188 \\ \hline v = & 4{\cdot}993846584 \\ w = & 5{\cdot} \\ \hline w - v = & {\cdot}006153416 \\ r = & 2{\cdot}094 \\ r(w-v) = & {\cdot}012885253 \end{array} \qquad \begin{array}{rl} 2r^3 = & 18{\cdot}363693168 \\ w = & 5 \\ \hline & 23{\cdot}363693168 \end{array}$$

Whence $\frac{{\cdot}012885253}{23{\cdot}3636931} = {\cdot}0005515.$

Therefore $x = 2{\cdot}0945515$ nearly,

which is true to the nearest figure in the eight place by only two substitutions. We must not, however, in all cases, expect the same rapid approximation, but be contented with doubling the number of figures each operation, which may be generally depended upon as correct, although, as we have before remarked with regard to Newton's rule, it is difficult to assign the precise limits of approximation.

Ex. 2. Let the proposed equation be

$$x^3 + 3x^2 + 3x = 140.$$

Assume $r = 4$, then (by formula 1)

$$\begin{array}{rl} r^3 = & 64 \\ 3r^2 = & 48 \\ 3r = & 12 \\ \hline v = & 124 \\ w = & 140 \\ \hline w - v = & 16 \\ r = & 4 \end{array} \qquad \begin{array}{rl} 2r^3 = & 128 \\ ar^2 = & 48 \\ w = & 140 \\ \hline & 316 \text{ divisor} \end{array}$$

Whence $\frac{16 \times 4}{316} = {\cdot}20.$

Therefore $x = 4{\cdot}20$ nearly.

Assume therefore $r = 4{\cdot}2$, then

$$\begin{array}{rl} r^3 = & 74{\cdot}088 \\ 3r^2 = & 52{\cdot}92 \\ 3r = & 12{\cdot}6 \\ \hline & 139{\cdot}608 \\ w = & 140 \\ (w - v) = & {\cdot}392 \end{array} \qquad \begin{array}{rl} 2r^3 = & 148{\cdot}176 \\ ar^2 = & 52{\cdot}92 \\ w = & 140 \\ \hline & 341{\cdot}096 \end{array}$$

Therefore $\frac{{\cdot}392 \times 4{\cdot}2}{341{\cdot}096} = {\cdot}004827.$

Whence $x = 4{\cdot}204827$, which is true to the seventh figure in two substitutions.

Ex. 3. Given $x^4 - 3x^2 - 75x = 10000$.

Assume $r = 10$, then, (formula 2)

$$\begin{array}{rl} r^4 = & 10000 \\ -3r^2 = & -300 \\ -75r = & -750 \\ \hline v = & 8950 \\ w = & 10000 \\ \hline w - v = & 1050 \\ 2r = & 20 \end{array} \qquad \begin{array}{rl} 5r^4 = & 5000 \\ cr^2 = & -300 \\ -dr = & +750 \\ 3w = & 30000 \\ \hline & 80450 \text{ divisor} \end{array}$$

Whence $\frac{1050 \times 20}{80450} = \cdot 2610$.

Therefore $x = 10\cdot 2610$ true to the sixth figure in one substitution.

Ex. 4. Given $x^5 - 5x^3 + 5x = 1$.

Assume here $r = \cdot 2$, then (by formula 3)

$$\begin{array}{rl} r^5 = & \cdot 00032 \\ -5r^3 = & -\cdot 04 \\ 5r = & 1\cdot 0 \\ \hline v = & \cdot 96032 \\ w = & 1\cdot 00000 \\ \hline w - v = & \cdot 03968 \\ r = & \cdot 2 \end{array} \qquad \begin{array}{rl} 3r^5 = & \cdot 00096 \\ br^3 = & -\cdot 04 \\ -dr = & -1\cdot 0 \\ 2v = & 1\cdot 92064 \\ \hline & \cdot 88160 \text{ divisor} \end{array}$$

Therefore $\frac{\cdot 03968 \times \cdot 2}{\cdot 88160} = \cdot 009$.

Whence $x = \cdot 209$ nearly.

Assume now $r = \cdot 209$ and we have

$$\begin{array}{rl} r^5 = & \cdot 0003988 \\ -5r^3 = & -\cdot 0456466 \\ 5r = & 1\cdot 045 \\ \hline v = & \cdot 9997522 \\ w = & 1\cdot 0000000 \\ \hline w - v = & \cdot 0002478 \end{array} \qquad \begin{array}{rl} 3r^5 = & \cdot 0011964 \\ br^3 = & -\cdot 0456466 \\ -dr = & -1\cdot 045 \\ 2v = & 1\cdot 9995044 \\ \hline & \cdot 9100542 \end{array}$$

Whence $\frac{\cdot 0002478 \times \cdot 209}{\cdot 9100542} = \cdot 0000569$.

Therefore $x = \cdot 2090569$, which is true to the last place, the root being $\cdot 209056926 = 2 \sin. 6°$. In this example r being decimal we have used v instead of w.

These examples, and those which have been given in the preceding part of this article, will be sufficient to enable the reader to appreciate the several practicable methods of solution; and he will of course adopt that which he thinks most eligible.

The method last described is generally the most converging, and its practical application as direct as can be wished; yet Newton's rule, as improved by Raphson, has the advantage of depending upon more obvious principles, such, indeed, as it is almost impossible to forget, and, therefore, will probably be adopted by algebraists, till a better method can be discovered.

In the preceding examples no particular remark is made relative to the application of the tables; it is obvious, however, that they furnish us readily with the several powers used in the approximation, by mere inspection, which would otherwise require considerable time and labour to obtain.

TABLE V.—*Containing all Prime Numbers from* 1 *to* 100000.

34. This table requires no particular illustration; and as to its uses, it is difficult to enumerate the several cases in which a knowledge of these numbers become necessary; yet such cases frequently occur, and as we have then no direct process for ascertaining whether a number be a prime or not, it is obvious that a table, such as is here given, will become very useful.

We have already stated in the preceding chapter that this table is copied from Vega's Mathematical Table, but it may not be uninteresting to the reader to be informed of the process by which these numbers have been obtained, and some of their most remarkable properties.

Eratosthenes is the first mathematician we know of who contemplated the nature and properties of prime numbers; and to him we owe the invention of what he called his κοσκινον, or sieve, for the purpose of finding those numbers, or for selecting them out of the series of natural numbers; the principle of which method has been adopted by modern authors for the same purpose, of which a correct idea may be formed from the following sketch.

Having written down in their proper order all the odd numbers from 1 to any extent required, as

1	3	5	7	9	11	13	15	17	19
21	23	25	27	29	31	33	35	37	39
41	43	45	47	49	51	53	55	57	59
61	63	65	67	69	71	73	75	77	79
81	83	85	87	89	91	93	95	97	99

begin with the first prime number 3, and over every third

number from that place put a point, which will denote that all these numbers are divisible by 3, as 9, 15, 21, &c.

Then from 5 a point is placed over every fifth number, all of which are necessarily divisible by 5, as 15, 25, 35, &c.

Again from 7, every seventh number is pointed in the same manner, such as 21, 35, 49, &c.

And having done this, all the numbers that now remain without points are prime numbers; for there is no prime number between 7 and $\sqrt{100}$, and if a number cannot be divided by a prime number less than its square root, it is a prime number, adding, therefore, to the above the prime number 2, which is the only even prime, we have

1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97,

which are all the prime numbers under 100. And it is obvious how the same method may be carried to any extent.

But when a number is proposed, and it is required to ascertain whether, or not, it be a prime number, we have no other means left, but that successively dividing the number by the several prime numbers, less than the square root itself, till we find one that will exactly divide it without a remainder, in which case it is obviously not a prime; but if none of them will so divide it, then we conclude with equal certainty that it is a prime number.

A method of finding a prime number beyond a certain limit by a direct process, is considered as one of the most difficult problems in the theory of numbers; which like the quadrature of the circle, the trisection of an angle, and the duplication of the cube, have engaged the attention of many of the ablest mathematicians of modern times. It was generally supposed, till it was demonstrated to the contrary, that this might be effected by some formula, such as $x^2 + x + 41$, $2x^2 + 29$, &c., in which, by assuming any number whatever for x, the whole formula would be a prime; this, however, cannot be done, but it is singular that the forms above given contain a great many primes, the first, by making $x = 0, 1, 2$, &c. gives a series of numbers, the first forty terms of which are primes, and the second in the same manner has its first 29 terms prime numbers.

We shall only further add a few of the most remarkable properties of prime numbers.

1. If a number cannot be divided by a prime number less than the square root of itself, it is a prime number.

2. All prime numbers, greater than 2, are of one of the forms $4n + 1$, or $4n - 1$; that is, if a prime number be divided by 4, it will leave for a remainder ± 1. So also all prime numbers, greater than 3, are of one of the forms $6n + 1$, or $6n - 1$, and

soon for various other forms, but as the converse is not true, viz. that all numbers in these forms are primes, it would be useless to enumerate them in this place.

3. The number of prime numbers is infinite, and the number of prime numbers, under any given number a, is very nearly expressed by the formula $\frac{a}{h \log. a - 1{\cdot}08366}$.

4. If n be a prime number, then will the product

$$1 . 2 . 3 . 4 . 5, \text{ \&c.} \ldots\ldots n, + 1$$

be divisible by n, but otherwise it will not. This may, therefore, be considered as containing a rule for determining whether a given number be a prime number; but it is obvious that the extreme length of the process renders it totally useless for that purpose.

5. Every prime number of the form $4n + 1$ is of the form $x^2 + y^2$, or is the sum of two squares; as $5 = 2^2 + 1^2$, $13 = 3^2 + 2^2$, $17 = 4^2 + 1^2$, &c. but a prime number not of this form cannot be resolved into two squares.

6. Every prime number of the form $8n + 1$, is of the three forms, $x^2 + y^2$, $x^2 + 2y^2$, $x^2 - 2y^2$.

$$\text{Thus } 41 = 5^2 + 4^2 = 3^2 + 2{\cdot}4^2 = 7^2 - 2{\cdot}2^2$$
$$\text{and } 73 = 8^2 + 3^2 = 1^2 + 2{\cdot}6^2 = 9^2 - 2{\cdot}2^2.$$
$$\text{\&c. \&c.}$$

7. Every prime number $8n + 7$ is of the form $9x^2 - 2y^2$.

Thus $31 = 7^2 - 2{\cdot}3^2$; and $47 = 7^2 - 2{\cdot}1^2$, &c.

8. Every prime number $8n + 3$, is of the form $x^2 + 2y^2$.

Thus $11 = 3^2 + 2{\cdot}1^2$; $19 = 1^2 + 2{\cdot}3^2$; $43 = 5^2 + 2{\cdot}3^2$, &c.

9. If n be a prime number, and r any number not divisible by n, then will r^n, divided by n, leave the same remainder as r divided by n.

10. Supposing r and n, still as in the preceding case, then $r^{n-1} - 1$ will be divisible by n.

We might have carried this enumeration of properties of prime numbers to a much greater extent, but the above are those which are more particularly useful in numerical investigations*.

Table VI.—*Containing the Hyperbolic Logarithms of all Numbers from* 1 *to* 10000.

35. The principal use of this table is in finding the value of such fluents as come out in hyperbolic logarithms, of which many cases are given in the collection of fluents, Table viii. and with the uses of which we of course suppose the

* See Barlow's Theory of Numbers.

reader to be already acquainted, and therefore shall not enter upon that subject in this place, but merely explain the readiest method of finding the hyperbolic logarithms, and the numbers answering to them, when beyond the limits of the table.

To find the Hyperbolic Logarithm of a Number.

If the given number be integral, and under 10000, its logarithm will be found immediately on inspection; and if it be decimal, or partly integral, and partly decimal, but consisting only of four places of figures, its logarithm may be found nearly as readily, thus:

Find the logarithm of the four figures the same as if they were integral, from which subtract the logarithm of such a power of 10 as is equal to the number of decimal places, and the remainder will be the logarithm required. But if the latter be the greatest, the former must be subtracted from it, and the remainder accounted negative, as in the following example.

Ex. 1. Required the hyperbolic logarithm of ·3854.

First, $\cdot 3854 = \frac{3854}{10000}$; therefore

Subtract hyp. log. of 3854 = 8·25686685
From hyp. log. . . 10000 = 9·21034038

hyp. log. ·3854 = − 0·95347353

Ex. 2. Find the hyperbolic logarithm of 37·64.

First, $37 \cdot 64 = \frac{3764}{100}$; therefore

From hyp. log. 3764 = 8·23323750
Take hyp. log. 100 = 4·60517019

hyp. log. 37·64 = 3·62806731.

And in the same manner it is obvious, that we may always reduce the operation of finding the hyperbolic logarithm of a number, wholly or partly decimal, to that of finding the hyperbolic logarithm of a number wholly integral, and it will, therefore, be sufficient to consider the latter case only in the following examples.

To find the Hyperbolic Logarithm of a Number consisting of more than four Figures.

36. Multiply or divide the number by such a power of 10 as will make it consist of four integers and decimals. Then find the logarithm of the integral part in the table, and multiply the difference between that logarithm and the next greater tabular logarithm by the decimal part of the proposed number, which

added to the logarithm of the integral part will be the logarithm of the reduced number; to which again adding or subtracting the logarithm of that power of 10 by which the number was divided or multiplied, and the sum or remainder will be the logarithm sought.

It should be observed, that a logarithm found in this manner cannot always be depended upon in the last place, the difference in this system being more rapid than in the common system, in consequence of the radix being smaller.

It will, therefore, be better, when great accuracy is required, to proceed according to the following formula.

Let n and d be two numbers, of which d is small with regard to n, the

$$\text{hyp. log.}\,(n+d) = \text{hyp. log.}\,(n) + \frac{d}{n+\frac{1}{2}d} \text{ very nearly,}$$

as is readily shown from the known logarithmic series,

$$\log.(n+d) = \log. n + \left(\frac{d}{n+d}\right) + \tfrac{1}{3}\left(\frac{d}{n+d}\right)^3 + \tfrac{1}{5}\left(\frac{d}{n+d}\right)^5 + \&c.$$

from which formula we draw the following rule.

Find the logarithm of the first four figures by the table, to which add the logarithm of such a power of 10, as is equal to the number of figures beyond four, then calling these last d, divide it by the given number *minus* $\frac{1}{2}d$, which quotient added to the above sum will give the logarithm required nearly.

Ex. 3. Let it be required, for example, to find the hyperbolic logarithm of 3462847.

Here $n = 3462000$, and $d = 847$,

hyp. log. 3462	= 8·14960174
hyp. log. 1000	= 6·90775528
$\frac{d}{n+\frac{1}{2}d} = \frac{847}{3462423}$	= 0·00024463
hyp. log. 3462847	= 15·05760165

Ex. 4. To find the logarithm of the same number by the first rule.

First 3462847 = 3462·847 × 1000,	
hyp. log. 3462 =	8·14960174
hyp. log. 3463 =	8·14989054
	·00028880 ×
	·847 =
	·00024461
add hyp. log. 3462	8·14960174
hyp. log. 1000	6·90775528
hyp. log. 3462847	15·05760163

which differs 2 in the last figure from the result previously determined; this rule, however, being much more simple than the other, it is to be preferred in all cases where the result is not required beyond seven decimals.

To find the Number corresponding to any given Logarithm.

37. This may be done by the converse of either of the two preceding rules, viz.

1st. Add to, or subtract from the given logarithm the logarithm of such a power of 10 as will bring it within the limits of the table.

Take from the table the nearest number to the logarithm, and find the difference between the logarithm of that number and the proposed logarithm, also between the former and the next greater tabular logarithm, and divide the former difference by the latter, which quotient being annexed to the four figures before found, will give the number answering to the reduced logarithm, which must then be divided or multiplied by that power of 10 whose logarithm was added or subtracted.

Note. This rule, like that in the preceding case, can only be depended upon to seven places; therefore when great accuracy is required, proceed according to the formula given in the 2d rule above, viz.

$$\text{hyp. log. } (n + d) = \text{hyp. log. } (n) + \frac{d}{n + \frac{1}{2}d}.$$

Here hyp. log. $(n + d)$ is known, being the given logarithm, as also hyp. log. (n), being the nearest tabular logarithm, whence also n is known.

Writing, therefore, hyp. log. $(n + d)$ − hyp. log. $(n) = b$, we have

$$\text{nat. num. to hyp. log. } (n + d) = n + \frac{bn}{1 - \frac{1}{2}b}.$$

Ex. 5. Required the natural number to 12·36684181.

From	12·36684181
Take hyp. log. of 100	4·60517019
red. log.	7·76167162
hyp. log. of 2348 . . .	7·76131918
$b =$	·00035244
$n =$	2348
$1 - \frac{1}{2}b =$	·999823

Therefore $\frac{bn}{1 - \frac{1}{2}b} = ·8276$.

Whence 2348·8276 × 100 = 234882·76 the number sought.

Ex. 6. Required the same according to 1st rule.

From	12·36684181
Take hyp. log. of 100 =	4·60517019
	7·76167162
hyp. log. of 2348 . . .	7·76131918
hyp. log. 2349	7·76174498
difference	35244
difference	42580

Therefore $\frac{35244}{44580} = \cdot 8277$.

Whence $2348 \cdot 8277 \times 100 = 234882 \cdot 77$ is the number sought by this rule; differing from the former by 1 in the last place.

Ex. 7. Required the natural number whose hyperbolic logarithm is -1.

To	$-$ 1·00000000
Add hyp. log. 10^4 . .	9·21034038
	8·21034038
hyp. log. 3678	8·21012440
hyp. log. 3679	8·21039625
difference	21598
difference	27185

Therefore $\frac{21598}{27185} = \cdot 795$.

Whence $3678 \cdot 795 \div 10000 = \cdot 3678795$ the number sought.

TABLE VII.—This table shows the decimal value of the differential co-efficients, arising from the interpolation and summation of series according to the differential method, its principal use being to facilitate the computation exhibited in art. xxvii. table viii.

TABLE VIII.—*Of various Formulæ relating to Doctrines of Equations, Series, Fluents, &c.*

38. This table is intended to form a synopsis of the principal results, in the various branches of the mathematics, exhibiting in a concise way the several rules or formulæ, as they have been deduced by different authors on those subjects, and which it is presumed will frequently be found useful, as a ready and convenient reference in a great variety of cases. It does not, however, require any particular illustration; and the same may be observed with regard to tables ix. and x.

TABLE I.

CONTAINING THE

FACTORS, SQUARES, CUBES, SQUARE ROOTS, CUBE ROOTS,
AND RECIPROCALS, OF ALL NUMBERS FROM 1 TO 10000.

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1	....	1	1	1·0000000	1·0000000	1·000000000
2	....	4	8	1·4142136	1·2599210	·500000000
3	....	9	27	1·7320508	1·4422496	·333333333
4	2^2	16	64	2·0000000	1·5874011	·250000000
5	....	25	125	2·2360680	1·7099759	·200000000
6	2.3	36	216	2·4494897	1·8171206	·166666667
7	....	49	343	2·6457513	1·9129312	·142857143
8	2^3	64	512	2·8284271	2·0000000	·125000000
9	3^2	81	729	3·0000000	2·0800837	·111111111
10	2.5	100	1000	3·1622777	2·1544347	·100000000
11	....	121	1331	3·3166248	2·2239801	·090909091
12	$2^2.3$	144	1728	3·4641016	2·2894286	·083333333
13	....	169	2197	3·6055513	2·3513347	·076923077
14	2.7	196	2744	3·7416574	2·4101422	·071428571
15	3.5	225	3375	3·8729833	2·4662121	·066666667
16	2^4	256	4096	4·0000000	2·5198421	·062500000
17	....	289	4913	4·1231056	2·5712816	·058823529
18	2.3^2	324	5832	4·2426407	2·6207414	·055555556
19	....	361	6859	4·3588989	2·6684016	·052631579
20	$2^2.5$	400	8000	4·4721360	2·7144177	·050000000
21	3.7	441	9261	4·5825757	2·7589243	·047619048
22	2.11	484	10648	4·6904158	2·8020393	·045454545
23	....	529	12167	4·7958315	2·8438670	·043478261
24	$2^3.3$	576	13824	4·8989795	2·8844991	·041666667
25	5^2	625	15625	5·0000000	2·9240177	·040000000
26	2.13	676	17576	5·0990195	2·9624960	·038461538
27	3^3	729	19683	5·1961524	3·0000000	·037037037
28	$2^2.7$	784	21952	5·2915026	3·0365889	·035714286
29	....	841	24389	5·3851648	3·0723168	·034482759
30	2.3.5	900	27000	5·4772256	3·1072325	·033333333
31	....	961	29791	5·5677644	3·1413806	·032258065
32	2^5	1024	32768	5·6568542	3·1748021	·031250000
33	3.11	1089	35937	5·7445626	3·2075343	·030303030
34	2.17	1156	39304	5·8309519	3·2396118	·029411765
35	5.7	1225	42875	5·9160798	3·2710663	·028571429
36	$2^2.3^2$	1296	46656	6·0000000	3·3019272	·027777778
37	....	1369	50653	6·0827625	3·3322218	·027027027
38	2.19	1444	54872	6·1644140	3·3619754	·026315789
39	3.13	1521	59319	6·2449980	3·3912114	·025641026
40	$2^3.5$	1600	64000	6·3245553	3·4199519	·025000000
41	....	1681	68921	6·4031242	3·4482172	·024390244
42	2.3.7	1764	74088	6·4807407	3·4760266	·023809524
43	....	1849	79507	6·5574385	3·5033981	·023255814
44	$2^2.11$	1936	85184	6·6332496	3·5303483	·022727273
45	$3^2.5$	2025	91125	6·7082039	3·5568933	·022222222
46	2.23	2116	97336	6·7823300	3·5830479	·021739130
47	....	2209	103823	6·8556546	3·6088261	·021276600
48	$2^4.3$	2304	110592	6·9282032	3·6342411	·020833333
49	7^2.	2401	117649	7·0000000	3·6593057	·020408163
50	2.5^2	2500	125000	7·0710678	3·6840314	·020000000
51	3.17	2601	132651	7·1414284	3·7084298	·019607843
52	$2^2.13$	2704	140608	7·2111026	3·7325111	·019230769
53	....	2809	148877	7·2801099	3·7562858	·018867925
54	2.3^3	2916	157464	7·3484692	3·7797631	·018518519
55	5.11	3025	166375	7·4161985	3·8029525	·018181818
56	$2^3.7$	3136	175616	7·4833148	3·8258624	·017857143
57	3.19	3249	185193	7·5498344	3·8485011	·017543860
58	2.29	3364	195112	7·6157731	3·8708766	·017241379
59	....	3481	205379	7·6811457	3·8929965	·016949153

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
60	$2^2.3.5$	3600	216000	7·7459667	3·9148676	·016666667
61	....	3721	226981	7·8102497	3·9364972	·016393443
62	2.31	3844	238328	7·8740079	3·9578915	·016129032
63	$3^2.7$	3969	250047	7·9372539	3·9790571	·015873016
64	2^6	4096	262144	8·0000000	4·0000000	·015625000
65	5.13	4225	274625	8·0622577	4·0207256	·015384615
66	2.3.11	4356	287496	8·1240384	4·0412401	·015151515
67	....	4489	300763	8·1853528	4·0615480	·014925373
68	$2^2.17$	4624	314432	8·2462113	4·0816551	·014705882
69	3.23	4761	328509	8·3066239	4·1015661	·014492754
70	2.5.7	4900	343000	8·3666003	4·1212853	·014285714
71	....	5041	357911	8·4261498	4·1408178	·014084507
72	$2^3.3^2$	5184	373248	8·4852814	4·1601676	·013888889
73	....	5329	389017	8·5440037	4·1793390	·013698630
74	2.37	5476	405224	8·6023253	4·1983364	·013513514
75	3.5^2	5625	421875	8·6602540	4·2171633	·013333333
76	$2^2.19$	5776	438976	8·7177979	4·2358236	·013157895
77	7.11	5929	456533	8·7749644	4·2543210	·012987013
78	2.3.13	6084	474552	8·8317609	4·2726586	·012820513
79	....	6241	493039	8·8881944	4·2908404	·012658228
80	$2^4.5$	6400	512000	8·9442719	4·3088695	·012500000
81	3^4	6561	531441	9·0000000	4·3267487	·012345679
82	2.41	6724	551368	9·0553851	4·3444815	·012195122
83	....	6889	571787	9·1104336	4·3620707	·012048193
84	$2^2.3.7$	7056	592704	9·1651514	4·3795191	·011904762
85	5.17	7225	614125	9·2195445	4·3968296	·011764706
86	2.43	7396	636056	9·2736185	4·4140049	·011627907
87	3.29	7569	658503	9·3273791	4·4310476	·011494253
88	$2^3.11$	7744	681472	9·3808315	4·4479602	·011363636
89	....	7921	704969	9·4339811	4·4647451	·011235955
90	$2.3^2.5$	8100	729000	9·4868330	4·4814047	·011111111
91	7.13	8281	753571	9·5393920	4·4979414	·010989011
92	$2^2.23$	8464	778688	9·5916630	4·5143574	·010869565
93	3.31	8649	804357	9·6436508	4·5306549	·010752688
94	2.47	8836	830584	9·6953597	4·5468359	·010638298
95	5.19	9025	857375	9·7467943	4·5629026	·010526316
96	$2^5.3$	9216	884736	9·7979590	4·5788570	·010416667
97	....	9409	912673	9·8488578	4·5947009	·010309278
98	2.7^2	9604	941192	9·8994949	4·6104363	·010204082
99	$3^2.11$	9801	970299	9·9498744	4·6260650	·010101010
100	$2^2.5^2$	10000	1000000	10·0000000	4·6415888	·010000000
101	....	10201	1030301	10·0498756	4·6570095	·009900990
102	2.3.17	10404	1061208	10·0995049	4·6723287	·009803922
103	....	10609	1092727	10·1488916	4·6875482	·009708738
104	$2^3.13$	10816	1124864	10·1980390	4·7026694	·009615385
105	3.5.7	11025	1157625	10·2469508	4·7176940	·009523810
106	2.53	11236	1191016	10·2956301	4·7326235	·009433962
107	....	11449	1225043	10·3440804	4·7474594	·009345794
108	$2^2.3^3$	11664	1259712	10·3923048	4·7622032	·009259259
109	....	11881	1295029	10·4403065	4·7768562	·009174312
110	2.5.11	12100	1331000	10·4880885	4·7914199	·009090909
111	3.37	12321	1367631	10·5356538	4·8058955	·009009009
112	$2^4.7$	12544	1404928	10·5830052	4·8202845	·008928571
113	....	12769	1442897	10·6301458	4·8345881	·008849558
114	2.3.19	12996	1481544	10·6770783	4·8488076	·008771930
115	5.23	13225	1520875	10·7238053	4·8629442	·008695652
116	$2^2.29$	13456	1560896	10·7703296	4·8769990	·008620690
117	$3^2.13$	13689	1601613	10·8166538	4·8909732	·008547009
118	2.59	13924	1643032	10·8627805	4·9048681	·008474576
119	7.17	14161	1685159	10·9087121	4·9186847	·008403361

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
120	$2^3.3.5$	14400	1728000	10·9544512	4·9324242	·008333333
121	11^2	14641	1771561	11·0000000	4·9460874	·008264463
122	2.61	14884	1815848	11·0453610	4·9596757	·008196721
123	3.41	15129	1860867	11·0905365	4·9731898	008130081
124	$2^2.31$	15376	1906624	11·1355287	4·9866310	·008064516
125	5^3	15625	1953125	11·1803399	5·0000000	·008000000
126	$2.3^2.7$	15876	2000376	11·2249722	5·0132979	·007936508
127	.....	16129	2048383	11·2694277	5·0265257	·007874016
128	2^7	16384	2097152	11·3137085	5·0396842	·007812500
129	3 43	16641	2146689	11·3578167	5·0527743	·007751938
130	2.5.13	16900	2197000	11·4017543	5·0657970	·007692308
131	.....	17161	2248091	11·4455231	5·0787531	·007633588
132	$2^2.3.11$	17424	2299968	11·4891253	5·0916434	·007575758
133	7.19	17689	2352637	11·5325626	5·1044687	·007518797
134	2.67	17956	2406104	11·5758369	5·1172299	·007462687
135	$3^3.5$	18225	2460375	11·6189500	5·1299278	·007407407
136	$2^3.17$	18496	2515456	11·6619038	5·1425632	·007352941
137	.....	18769	2571353	11·7046999	5·1551367	·007299270
138	2.3.23	19044	2628072	11·7473444	5·1676493	·007246377
139	.....	19321	2685619	11·7898261	5·1801015	·007194245
140	$2^2.5.7$	19600	2744000	11·8321596	5·1924941	·007142857
141	3.47	19881	2803221	11·8743421	5·2048279	·007092199
142	2.71	20164	2863288	11·9163753	5·2171034	·007042254
143	11.13	20449	2924207	11·9582607	5·2293215	·006993007
144	$2^4.3^2$	20736	2985984	12·0000000	5·2414828	·006944444
145	5.29	21025	3048625	12·0415946	5·2585879	·006896552
146	2.73	21316	3112136	12·0830460	5·2656374	·006849315
147	3.7^2	21609	3176523	12·1243557	5·2776321	·006802721
148	$2^2.37$	21904	3241792	12·1655251	5·2895725	·006756757
149	.....	22201	3307949	12·2065556	5·3014592	·006711409
150	$2.3.5^2$	22500	3375000	12·2474487	5·3132928	·006666667
151	.....	22801	3442951	12·2882057	5·3250740	·006622517
152	$2^3.19$	23104	3511808	12·3288280	5·3368033	·006578947
153	$3^2.17$	23409	3581577	12·3693169	5·3484812	·006535948
154	2.7.11	23716	3652264	12·4096736	5·3601084	·006493506
155	5.31	24025	3723875	12·4498996	5·3716854	·006451613
156	$2^2.3.13$	24336	3796416	12·4899960	5·3832126	·006410256
157	.....	24649	3869893	12·5299641	5·3946907	·006369427
158	2.79	24964	3944312	12·5698051	5·4061202	·006329114
159	3.53	25281	4019679	12·6095202	5·4175015	·006289308
160	$2^5.5$	25600	4096000	12·6491106	5·4288352	·006250000
161	7.23	25921	4173281	12·6885775	5·4401218	006211180
162	2.3^4	26244	4251528	12·7279221	5·4513618	006172840
163	.....	26569	4330747	12·7671453	5·4625556	·006134969
164	$2^2.41$	26896	4410944	12·8062485	5·4737037	·006097561
165	3.5.11	27225	4492125	12·8452326	5·4848066	·006060606
166	2.83	27556	4574296	12·8840987	5·4958647	·006024096
167	.....	27889	4657463	12·9228480	5·5068784	·005988024
168	$2^3.3.7$	28224	4741632	12·9614814	5·5178484	·005952381
169	13^2	28561	4826809	13·0000000	5·5287748	·005917160
170	2 5.17	28900	4913000	13·0384048	5·5396583	·005882353
171	3^2 19	29241	5000211	13·0766968	5·5504991	·005847953
172	2^2 43	29584	5088448	13·1148770	5·5612978	·005813953
173	.....	29929	5177717	13·1529464	5·5720546	·005780347
174	2.3 29	30276	5268024	13·1909060	5·5827702	·005747126
175	$5^2.7$	30625	5359375	13·2287566	5·5934447	·005714286
176	$2^4.11$	30976	5451776	13·2664992	5·6040787	·005681818
177	3.59	31329	5545233	13·3041347	5·6146724	·005649718
178	2.89	31684	5639752	13·3416641	5·6252263	·005617978
179	.....	32041	5735339	13·3790882	5·6357408	·005586592

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
180	$2^2.3^2.5$	32400	5832000	13·4164079	5·6462162	·005555556
181	.....	32761	5929741	13·4536240	5·6566528	·005524862
182	2.7.13	33124	6028568	13·4907376	5·6670511	·005494505
183	3.61	33489	6128487	13·5277493	5·6774114	·005464481
184	$2^3.23$	33856	6229504	13·5646600	5·6877340	·005434783
185	5.37	34225	6331625	13·6014705	5·6980192	·005405405
186	2.3.31	34596	6434856	13·6381817	5·7082675	·005376344
187	11.17	34969	6539203	13·6747943	5·7184791	·005347594
188	$2^2.47$	35344	6644672	13·7113092	5·7286543	·005319149
189	$3^3.7$	35721	6751269	13·7477271	5·7387936	·005291005
190	2.5.19	36100	6859000	13·7840488	5·7488971	·005263158
191	.....	36481	6967871	13·8202750	5·7589652	·005235602
192	$2^6.3$	36864	7077888	13·8564065	5·7689982	·005208333
193	.....	37249	7189057	13·8924440	5·7789966	·005181347
194	2.97	37636	7301384	13·9283883	5·7889604	·005154639
195	3.5.13	38025	7414875	13·9642400	5·7988900	·005128205
196	$2^2.7^2$	38416	7529536	14·0000000	5·8087857	·005102041
197	.....	38809	7645373	14·0356688	5·8186479	·005076142
198	$2.3^2.11$	39204	7762392	14·0712473	5·8284767	·005050505
199	.....	39601	7880599	14·1067360	5·8382725	·005025126
200	$2^3.5^2$	40000	8000000	14·1421356	5·8480355	·005000000
201	3.67	40401	8120601	14·1774469	5·8577660	·004975124
202	2.101	40804	8242408	14·2126704	5·8674643	·004950495
203	7.29	41209	8365427	14·2478068	5·8771307	·004926108
204	$2^2.3.17$	41616	8489664	14·2828569	5·8867653	·004901961
205	5.41	42025	8615125	14·3178211	5·8963685	·004878049
206	2.103	42436	8741816	14·3527001	5·9059406	·004854369
207	$3^2.23$	42849	8869743	14·3874946	5·9154817	·004830918
208	$2^4.13$	43264	8998912	14·4222051	5·9249921	·004807692
209	11.19	43681	9129329	14·4568323	5·9344721	·004784689
210	2.3.5.7	44100	9261000	14·4913767	5·9439220	·004761905
211	.....	44521	9393931	14·5258390	5·9533418	·004739336
212	$2^2.53$	44944	9528128	14·5602198	5·9627320	·004716981
213	3.71	45369	9663597	14·5945195	5·9720926	·004694836
214	2.107	45796	9800344	14·6287388	5·9814240	·004672897
215	5.43	46225	9938375	14·6628783	5·9907264	·004651163
216	$2^3.3^3$	46656	10077696	14·6969385	6·0000000	·004629630
217	7.31	47089	10218313	14·7309199	6·0092450	·004608295
218	2.109	47524	10360232	14·7648231	6·0184617	·004587156
219	3.73	47961	10503459	14·7986486	6·0276502	·004566210
220	$2^2.5.11$	48400	10648000	14·8323970	6·0368107	·004545455
221	13.17	48841	10793861	14·8660687	6·0459435	·004524887
222	2.3.37	49284	10941048	14·8996644	6·0550489	·004504505
223	.....	49729	11089567	14·9331845	6·0641270	·004484305
224	$2^5.7$	50176	11239424	14·9666295	6·0731779	·004464286
225	$3^2.5^2$	50625	11390625	15·0000000	6·0822020	·004444444
226	2.113	51076	11543176	15·0332964	6·0911994	·004424779
227	.....	51529	11697083	15·0665192	6·1001702	·004405286
228	$2^2.3.19$	51984	11852352	15·0996689	6·1091147	·004385965
229	.....	52441	12008989	15·1327460	6·1180332	·004366812
230	2.5.23	52900	12167000	15·1657509	6·1269257	·004347826
231	3.7.11	53361	12326391	15·1986842	6·1357924	·004329004
232	$2^3.29$	53824	12487168	15·2315462	6·1446337	·004310345
233	.....	54289	12649337	15·2643375	6·1534495	·004291845
234	$2.3^2.13$	54756	12812904	15·2970585	6·1622401	·004273504
235	5.47	55225	12977875	15·3297097	6·1710058	·004255319
236	$2^2.59$	55696	13144256	15·3622915	6·1797466	·004237288
237	3.79	56169	13312053	15·3948043	6·1884628	·004219409
238	2.7.17	56644	13481272	15·4272486	6·1971544	·004201681
239	.....	57121	13651919	15·4596248	6·2058218	·004184100

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
240	$2^4.3.5$	57600	13824000	15·4919334	6·2144650	·004166667
241	.....	58081	13997521	15·5241747	6·2230843	·004149378
242	2.11^2	58564	14172488	15·5563492	6·2316797	·004132231
243	3^5	59049	14348907	15·5884573	6·2402515	·004115226
244	$2^2.61$	59536	14526784	15·6204994	6·2487998	·004098361
245	5.7^2	60025	14706125	15·6524758	6·2573248	·004081633
246	2.3.41	60516	14886936	15·6843871	6·2658266	·004065041
247	13.19	61009	15069223	15·7162336	6·2743054	·004048583
248	23.31	61504	15252992	15·7480157	6·2827613	·004032258
249	3.83	62001	15438249	15·7797338	6·2911946	·004016064
250	2.5^3	62500	15625000	15·8113883	6·2996053	·004000000
251	.....	63001	15813251	15·8429795	6·3079935	·003984064
252	$2^2.3^2.7$	63504	16003008	15·8745079	6·3163596	·003968254
253	11.23	64009	16194277	15·9059737	6·3247035	·003952569
254	2.127	64516	16387064	15·9373775	6·3330256	·003937008
255	3.5.17	65025	16581375	15·9687194	6·3413257	·003921569
256	2^8	65536	16777216	16·0000000	6·3496042	·003906250
257	.....	66049	16974593	16·0312195	6·3578611	·003891051
258	2.3.43	66564	17173512	16·0623784	6·3660968	·003875969
259	7.37	67081	17373979	16·0934769	6·3743111	·003861004
260	$2^2.5.13$	67600	17576000	16·1245155	6·3825043	·003846154
261	$3^2.29$	68121	17779581	16·1554944	6·3906765	·003831418
262	2.131	68644	17984728	16·1864141	6·3988279	·003816794
263	.....	69169	18191447	16·2172747	6·4069585	·003802281
264	$2^3.3.11$	69696	18399744	16·2480768	6·4150687	·003787879
265	5.53	70225	18609625	16·2788206	6·4231583	·003773585
266	2.7.19	70756	18821096	16·3095064	6·4312276	·003759398
267	3.89	71289	19034163	16·3401346	6·4392767	·003745318
268	$2^2.67$	71824	19248832	16·3707055	6·4473057	·003731343
269	.....	72361	19465109	16·4012195	6·4553148	·003717472
270	$2.3^3.5$	72900	19683000	16·4316767	6·4633041	·003703704
271	.....	73441	19902511	16·4620776	6·4712736	·003690037
272	$2^4.17$	73984	20123648	16·4924225	6·4792236	·003676471
273	3.7.13	74529	20346417	16·5227116	6·4871541	·003663004
274	2.137	75076	20570824	16·5529454	6·4950653	·003649635
275	$5^2.11$	75625	20796875	16·5831240	6·5029572	003636364
276	$2^2.3.23$	76176	21024576	16·6132477	6·5108300	·003623188
277	.....	76729	21253933	16·6433170	6·5186839	·003610108
278	2.139	77284	21484952	16·6733320	6·5265189	·003597122
279	$3^2.31$	77841	21717639	16·7032931	6·5343351	·003584229
280	$2^3.5.7$	78400	21952000	16·7332005	6·5421326	·003571429
281	.....	78961	22188041	16·7630546	6·5499116	·003558719
282	2.3.47	79524	22425768	16·7928556	6·5576722	·003546099
283	.....	80089	22665187	16·8226038	6·5654144	·003533569
284	$2^2.71$	80656	22906304	16·8522995	6·5731385	·003521127
285	3.5.19	81225	23149125	16·8819430	6·5808443	·003508772
286	2.11.13	81796	23393656	16·9115345	6·5885323	·003496503
287	7.41	82369	23639903	16·9410743	6·5962023	003484321
288	$2^5.3^2$	82944	23887872	16·9705627	6·6038545	·003472222
289	17^2	83521	24137569	17·0000000	6·6114890	·003460208
290	2.5.29	84100	24389000	17·0293864	6·6191060	·003448276
291	3.97	84681	24642171	17·0587221	6·6267054	·003436426
292	$2^2.73$	85264	24897088	17·0880075	6·6342874	·003424658
293	.....	85849	25153757	17·1172428	6·6418522	·003412969
294	$2.3.7^2$	86436	25412184	17·1464282	6·6493998	·003401361
295	5.59	87025	25672375	17·1755640	6·6569302	·003389831
296	23.37	87616	25934336	17·2046505	6·6644437	·003378378
297	33.11	88209	26198073	17·2336879	6·6719403	·003367003
298	2.149	88804	26463592	17·2626765	6·6794200	·003355705
299	13.23	89401	26730899	17·2916165	6·6868831	·003344482

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
300	$2^2.3.5^2$	90000	27000000	17·3205081	6·6943295	·003333333
301	7.43	90601	27270901	17·3493516	6·7017592	·003322259
302	2.151	91204	27543608	17·3781472	6·7091729	·003311258
303	3.101	91809	27818127	17·4068952	6·7165700	·003300330
304	$2^4.19$	92416	28094464	17·4355958	6·7239508	·003289474
305	5.61	93025	28372625	17·4642492	6·7313155	·003278689
306	$2.3^2.17$	93636	28652616	17·4928557	6·7386641	·003267974
307	.....	94249	28934443	17·5214155	6·7459967	·003257329
308	$2^2.7.11$	94864	29218112	17·5499288	6·7533134	·003246753
309	3.103	95481	29503629	17·5783958	6·7606143	·003236246
310	2.5.31	96100	29791000	17·6068169	6·7678995	·003225806
311	.....	96721	30080231	17·6351921	6·7751690	·003215434
312	$2^3.3.13$	97344	30371328	17·6635217	6·7824229	·003205128
313	.....	97969	30664297	17·6918060	6·7896613	·003194888
314	2.157	98596	30959144	17·7200451	6·7968844	·003184713
315	$3^2.5.7$	99225	31255875	17·7482393	6·8040921	·003174603
316	$2^2.79$	99856	31554496	17·7763888	6·8112847	·003164557
317	.....	100489	31855013	17·8044938	6·8184620	·003154574
318	2.3.53	101124	32157432	17·8325545	6·8256242	·003144654
319	11.29	101761	32461759	17·8605711	6·8327714	·003134796
320	$2^6.5$	102400	32768000	17·8885438	6·8399037	·003125000
321	3.107	103041	33076161	17·9164729	6·8470213	·003115265
322	2.7.23	103684	33386248	17·9443584	6·8541240	·003105590
323	17.19	104329	33698267	17·9722008	6·8612120	·003095975
324	$2^2.3^4$	104976	34012224	18·0000000	6·8682855	·003086420
325	$5^2.13$	105625	34328125	18·0277564	6·8753443	·003076923
326	2.163	106276	34645976	18·0554701	6·8823888	·003067485
327	3.109	106929	34965783	18·0831413	6·8894188	·003058104
328	$2^3.41$	107584	35287552	18·1107703	6·8964345	·003048780
329	7.47	108241	35611289	18·1383571	6·9034359	·003039514
330	2.3.5.11	108900	35937000	18·1659021	6·9104232	·003030303
331	.....	109561	36264691	18·1934054	6·9173964	·003021148
332	$2^2.83$	110224	36594368	18·2208672	6·9243556	·003012048
333	$3^2.37$	110889	36926037	18·2482876	6·9313008	·003002003
334	2.167	111556	37259704	18·2756669	6·9382321	·002994012
335	5.67	112225	37595375	18·3030052	6·9451496	·002985075
336	$2^4.3.7$	112896	37933056	18·3303028	6·9520533	·002976190
337	.....	113569	38272753	18·3575598	6·9589434	·002967359
338	2.13^2	114244	38614472	18·3847763	6·9658198	·002958580
339	3.113	114921	38958219	18·4119526	6·9726826	·002949853
340	$2^2.5.17$	115600	39304000	18·4390889	6·9795321	·002941176
341	11.31	116281	39651821	18·4661853	6·9863681	·002932551
342	$2.3^2.19$	116964	40001688	18·4932420	6·9931906	·002923977
343	7^3	117649	40353607	18·5202592	7·0000000	·002915452
344	$2^3.43$	118336	40707584	18·5472370	7·0067962	·002906977
345	3.5.23	119025	41063625	18·5741756	7·0135791	·002898551
346	2.173	119716	41421736	18·6010752	7·0203490	·002890173
347	.....	120409	41781923	18·6279360	7·0271058	·002881844
348	$2^2.3.29$	121104	42144192	18·6547581	7·0338497	·002873563
349	.....	121801	42508549	18·6815417	7·0405806	·002865330
350	$2.5^2.7$	122500	42875000	18·7082869	7·0472987	·002857143
351	$3^3.13$	123201	43243551	18·7349940	7·0540041	·002849003
352	$2^5.11$	123904	43614208	18·7616630	7·0606967	·002840909
353	.....	124609	43986977	18·7882942	7·0673767	·002832861
354	2.3.59	125316	44361864	18·8148877	7·0740440	·002824859
355	5.71	126025	44738875	18·8414437	7·0806988	·002816901
356	$2^2.89$	126736	45118016	18·8679623	7·0873411	·002808989
357	3.7.17	127449	45499293	18·8944436	7·0939709	·002801120
358	2.179	128164	45882712	18·9208879	7·1005885	·002793296
359	.....	128881	46268279	18·9472953	7·1071937	·002785515

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
360	$2^3.3^2.5$	129600	46656000	18·9736660	7·1137866	·002777778
361	19^2	130321	47045881	19·0000000	7·1203674	·002770083
362	2.181	131044	47437928	19·0262976	7·1269360	·002762431
363	3.11^2	131769	47832147	19·0525589	7·1334925	·002754821
364	$2^2.7.13$	132496	48228544	19·0787840	7·1400370	·002747253
365	5.73	133225	48627125	19·1049732	7·1465695	·002739726
366	2.3.61	133956	49027896	19·1311265	7·1530901	·002732240
367	.....	134689	49430863	19·1572441	7·1595988	·002724796
368	$2^4.23$	135424	49836032	19·1833261	7·1660957	·002717391
369	$3^2.41$	136161	50243409	19·2093727	7·1725809	·002710027
370	2.5.37	136900	50653000	19·2353841	7·1790544	·002702703
371	7.53	137641	51064811	19·2613603	7·1855162	·002695418
372	$2^2.3.31$	138384	51478848	19·2873015	7·1919663	·002688172
373	.....	139129	51895117	19·3132079	7·1984050	·002680965
374	2.11.17	139876	52313624	19·3390796	7·2048322	·002673797
375	3.5^3	140625	52734375	19·3649167	7·2112479	·002666667
376	$2^3.47$	141376	53157376	19·3907194	7·2176522	·002659574
377	13.29	142129	53582633	19·4164878	7·2240450	·002652520
378	$2.3^3.7$	142884	54010152	19·4422221	7·2304268	·002645503
379	.....	143641	54439939	19·4679223	7·2367972	·002638522
380	$2^2.5.19$	144400	54872000	19·4935887	7·2431565	·002631579
381	3.127	145161	55306341	19·5192213	7·2495045	·002624672
382	2.191	145924	55742968	19·5448203	7·2558415	·002617801
383	.....	146689	56181887	19·5703858	7·2621675	·002610966
384	$2^7.3$	147456	56623104	19·5959179	7·2684824	·002604167
385	5.7.11	148225	57066625	19·6214169	7·2747864	·002597403
386	2.193	148996	57512456	19·6468827	7·2810794	·002590674
387	$3^2.43$	149769	57960603	19·6723156	7·2873617	·002583979
388	$2^2.97$	150544	58411072	19·6977156	7·2936330	·002577320
389	.....	151321	58863869	19·7230829	7·2998936	·002570694
390	2.3.5.13	152100	59319000	19·7484177	7·3061436	·002564103
391	17.23	152881	59776471	19·7737199	7·3123828	·002557545
392	$2^3.7^2$	153664	60236288	19·7989899	7·3186114	·002551020
393	3.131	154449	60698457	19·8242276	7·3248295	·002544529
394	2.197	155236	61162984	19·8494332	7·3310369	·002538071
395	5.79	156025	61629875	19·8746069	7·3372339	·002531646
396	$2^2.3^2.11$	156816	62099136	19·8997487	7·3434205	·002525253
397	.....	157609	62570773	19·9248588	7·3495966	·002518892
398	2.199	158404	63044792	19·9499373	7·3557624	·002512563
399	3.7.19	159201	63521199	19·9749844	7·3619178	·002506266
400	$2^4.5^2$	160000	64000000	20·0000000	7·3680630	·002500000
401	.....	160801	64481201	20·0249844	7·3741979	·002493766
402	2.3.67	161604	64964808	20·0499377	7·3803227	·002487562
403	13.31	162409	65450827	20·0748599	7·3864373	·002481390
404	$2^2.101$	163216	65939264	20·0997512	7·3925418	·002475248
405	$3^4.5$	164025	66430125	20·1246118	7·3986363	·002469136
406	2.7.29	164836	66923416	20·1494417	7·4047206	·002463054
407	11.37	165649	67419143	20·1742410	7·4107950	·002457002
408	$2^3.3.17$	166464	67917312	20·1990099	7·4168595	·002450980
409	.....	167281	68417929	20·2237484	7·4229142	·002444988
410	2.5.41	168100	68921000	20·2484567	7·4289589	·002439024
411	3.137	168921	69426531	20·2731349	7·4349938	·002433090
412	$2^2.103$	169744	69934528	20·2977831	7·4410189	·002427184
413	7.59	170569	70444997	20·3224014	7·4470342	·002421308
414	$2.3^2.23$	171396	70957944	20·3469899	7·4530399	·002415459
415	5.83	172225	71473375	20·3715488	7·4590359	·002409639
416	$2^5.13$	173056	71991296	20·3960781	7·4650223	·002403846
417	3.139	173889	72511713	20·4205779	7·4709991	·002398082
418	2.11.19	174724	73034632	20·4450483	7·4769664	·002392344
419	.....	175561	73560059	20·4694895	7·4829242	·002386635

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
420	$2^2.3.5.7$	176400	74088000	20·4939015	7·4888724	·002380952
421	.....	177241	74618461	20·5182845	7·4948113	·002375297
422	2.211	178084	75151448	20·5426386	7·5007406	·002369668
423	$3^2.47$	178929	75686967	20·5669638	7·5066607	·002364066
424	$2^3.53$	179776	76225024	20·5912603	7·5125715	·002358491
425	$5^2.17$	180625	76765625	20·6155281	7·5184730	·002352941
426	2.3.71	181476	77308776	20·6397674	7·5243652	·002347418
427	7.61	182329	77854483	20·6639783	7·5302482	·002341920
428	$2^2.107$	183184	78402752	20·6881609	7·5361221	·002336449
429	3.11.13	184041	78953589	20·7123152	7·5419867	·002331002
430	2.5.43	184900	79507000	20·7364414	7·5478423	·002325581
431	.....	185761	80062991	20·7605395	7·5536888	·002320186
432	$2^4.3^3$	186624	80621568	20·7846097	7·5595263	·002314815
433	.....	187489	81182737	20·8086520	7·5653548	·002309469
434	2.7.31	188356	81746504	20·8326667	7·5711743	·002304147
435	3.5.29	189225	82312875	20·8566536	7·5769849	·002298851
436	$2^2.109$	190096	82881856	20·8806130	7·5827865	·002293578
437	19.23	190969	83453453	20·9045450	7·5885793	·002288330
438	2.3.73	191844	84027672	20·9284495	7·5943633	·002283105
439	.....	192721	84604519	20·9523268	7·6001385	·002277904
440	$2^3.5.11$	193600	85184000	20·9761770	7·6059049	·002272727
441	$3^2.7^2$	194481	85766121	21·0000000	7·6116626	·002267574
442	2.13.17	195364	86350888	21·0237960	7·6174116	·002262443
443	.....	196249	86938307	21·0475652	7·6231519	·002257336
444	$2^2.3.37$	197136	87528384	21·0713075	7·6288837	·002252252
445	5.89	198025	88121125	21·0950231	7·6346067	·002247191
446	2.223	198916	88716536	21·1187121	7·6403213	·002242152
447	3.149	199809	89314623	21·1423745	7·6460272	·002237136
448	$2^6.7$	200704	89915392	21·1660105	7·6517247	·002232143
449	.....	201601	90518849	21·1896201	7·6574138	·002227171
450	$2.3^2.5^2$	202500	91125000	21·2132034	7·6630943	·002222222
451	11.41	203401	91733851	21·2367606	7·6687665	·002217295
452	$2^2.113$	204304	92345408	21·2602916	7·6744303	·002212389
453	3.151	205209	92959677	21·2837967	7·6800857	·002207506
454	2.227	206116	93576664	21·3072758	7·6857328	·002202643
455	5.7.13	207025	94196375	21·3307290	7·6913717	·002197802
456	$2^3.3.19$	207936	94818816	21·3541565	7·6970023	·002192982
457	.....	208849	95443993	21·3775583	7·7026246	·002188184
458	2.229	209764	96071912	21·4009346	7·7082388	·002183406
459	$3^3.17$	210681	96702579	21·4242853	7·7138448	·002178649
460	$2^2.5.23$	211600	97336000	21·4476106	7·7194426	·002173913
461	.....	212521	97972181	21·4709106	7·7250325	·002169197
462	2.3.7.11	213444	98611128	21·4941853	7·7306141	·002164502
463	.....	214369	99252847	21·5174348	7·7361877	·002159827
464	$2^4.29$	215296	99897344	21·5406592	7·7417532	·002155172
465	3.5.13	216225	100544625	21·5638587	7·7473109	·002150538
466	2.233	217156	101194696	21·5870331	7·7528606	·002145923
467	.....	218089	101847563	21·6101828	7·7584023	·002141328
468	$2^2.3^2.13$	219024	102503232	21·6333077	7·7639361	·002136752
469	7.67	219961	103161709	21·6564078	7·7694620	·002132196
470	2.5.47	220900	103823000	21·6794834	7·7749801	·002127660
471	3.157	221841	104487111	21·7025344	7·7804904	·002123142
472	$2^3.59$	222784	105154048	21·7255610	7·7859928	·002118644
473	11.43	223729	105823817	21·7485632	7·7914875	·002114165
474	2.3.79	224676	106496424	21·7715411	7·7969745	·002109705
475	$5^2.19$	225625	107171875	21·7944947	7·8024538	·002105263
476	$2^2.7.17$	226576	107850176	21·8174242	7·8079254	·002100840
477	$3^2.53$	227529	108531333	21·8403297	7·8133892	·002096436
478	2.239	228484	109215352	21·8632111	7·8188456	·002092050
479	.....	229441	109902239	21·8860686	7·8242942	·002087683

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
480	$2^5.3.5$	230400	110592000	21·9089023	7·8297353	·002083333
481	13.37	231361	111284641	21·9317122	7·8351688	·002079002
482	2.241	232324	111980168	21·9544984	7·8405949	·002074689
483	3.7.23	233289	112678587	21·9772610	7·8460134	·002070393
484	$2^2.11^2$	234256	113379904	22·0000000	7·8514244	·002066116
485	5.97	235225	114084125	22·0227155	7·8568281	·002061856
486	2.3^5	236196	114791256	22·0454077	7·8622242	·002057613
487	.....	237169	115501303	22·0680765	7·8676130	·002053388
488	$2^3.61$	238144	116214272	22·0907220	7·8729944	·002049180
489	3.163	239121	116930169	22·1133444	7·8783684	·002044990
490	$2.5.7^2$	240100	117649000	22·1359436	7·8837352	·002040816
491	.....	241081	118370771	22·1585198	7·8890946	·002036660
492	$2^2.3.41$	242064	119095488	22·1810730	7·8944468	·002032520
493	17.29	243049	119823157	22·2036033	7·8997917	·002028398
494	2.13.19	244036	120553784	22·2261108	7·9051294	·002024291
495	$3^2.5.11$	245025	121287375	22·2485955	7·9104599	·002020202
496	$2^4.31$	246016	122023936	22·2710575	7·9157832	·002016129
497	7.71	247009	122763473	22·2934968	7·9210994	·002012072
498	2.3.83	248004	125505992	22·3159136	7·9264085	·002008032
499	.....	249001	124251499	22·3383079	7·9317104	·002004008
500	$2^2.5^3$	250000	125000000	22·3606798	7·9370053	·002000000
501	3.167	251001	125751501	22·3830293	7·9422931	·001996008
502	2.251	252004	126506008	22·4053565	7·9475739	·001992032
503	.....	253009	127263527	22·4276615	7·9528477	·001988072
504	$2^3.3^2.7$	254016	128024064	22·4499443	7·9581144	·001984127
505	5.101	255025	128787625	22·4722051	7·9633743	·001980198
506	2.11.23	256036	129554216	22·4944438	7·9686271	·001976285
507	3.13^2	257049	130323843	22·5166605	7·9738731	·001972387
508	$2^2.127$	258064	131096512	22·5388553	7·9791122	·001968504
509	.....	259081	131872229	22·5610283	7·9843444	·001964637
510	2.3.5.17	260100	132651000	22·5831796	7·9895697	·001960784
511	7.73	261121	133432831	22·6053091	7·9947883	·001956947
512	2^9	262144	134217728	22·6274170	8·0000000	·001953125
513	$3^3.19$	263169	135005697	22·6495033	8·0052049	·001949318
514	2.257	264196	135796744	22·6715681	8·0104032	·001945525
515	5.103	265225	136590875	22·6936114	8·0155946	·001941748
516	$2^2.3.43$	266256	137388096	22·7156334	8·0207794	·001937984
517	11.47	267289	138188413	22·7376340	8·0259574	·001934236
518	2.7.37	268324	138991832	22·7596134	8·0311287	·001930502
519	3.173	269361	139798359	22·7815715	8·0362935	·001926782
520	$2^3.5.13$	270400	140608000	22·8035085	8·0414515	·001923077
521	.....	271441	141420761	22·8254244	8·0466030	·001919386
522	$2.3^2.29$	272484	142236648	22·8473193	8·0517479	·001915709
523	.....	273529	143055667	22·8691933	8·0568862	·001912046
524	$2^2.131$	274576	143877824	22·8910463	8·0620180	·001908397
525	$3.5^2.7$	275625	144703125	22·9128785	8·0671432	·001904762
526	2.263	276676	145531576	22·9346899	8·0722620	·001901141
527	17.31	277729	146363183	22·9564806	8·0773743	·001897533
528	$2^4.3.11$	278784	147197952	22·9782506	8·0824800	·001893939
529	23^2	279841	148035889	23·0000000	8·0875794	·001890359
530	2.5.53	280900	148877000	23·0217289	8·0926723	·001886792
531	$3^2.59$	281961	149721291	23·0434372	8·0977589	·001883239
532	$2^2.7.19$	283024	150568768	23·0651252	8·1028390	·001879699
533	13.41	284089	151419437	23·0867928	8·1079128	·001876173
534	2.3.89	285156	152273304	23·1084400	8·1129803	·001872659
535	5.107	286225	153130375	23·1300670	8·1180414	·001869159
536	$2^3.67$	287296	153990656	23·1516738	8·1230962	·001865672
537	3.179	288369	154854153	23·1732605	8·1281447	·001862197
538	2.269	289444	155720872	23·1948270	8·1331870	·001858736
539	$7^2.11$	290521	156590819	23·2163735	8·1382230	·001855288

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
540	$2^2.3^3.5$	291600	157464000	23·2379001	8·1432529	·001851852
541	.....	292681	158340421	23·2594067	8·1483765	·001848429
542	2.271	293764	159220088	23·2808935	8·1532939	·001845018
543	3.181	294849	160103007	23·3023604	8·1583051	·001841621
544	$2^5.17$	295936	160989184	23·3238076	8·1633102	·001838235
545	5.109	297025	161878625	23·3452351	8·1683092	·001834862
546	2.3.7.13	298116	162771336	23·3666429	8·1733020	·001831502
547	.....	299209	163667323	23·3880311	8·1782888	·001828154
548	2^2 137	300304	164566592	23·4093998	8·1832695	·001824818
549	$3^2.61$	301401	165469149	23·4307490	8·1882441	·001821494
550	$2.5^2.11$	302500	166375000	23·4520788	8·1932127	·001818182
551	19.29	303601	167284151	23·4733892	8·1981753	·001814882
552	$2^3.3.23$	304704	168196608	23·4946802	8·2031319	·001811594
553	7.79	305809	169112377	23·5159520	8·2080825	·001808318
554	2.277	306916	170031464	23·5372046	8·2130271	·001805054
555	3.5.37	308025	170953875	23·5584380	8·2179657	·001801802
556	$2^2.139$	309136	171879616	23·5796522	8·2228985	·001798561
557	.....	310249	172808693	23·6008474	8·2278254	·001795332
558	$2.3^2.31$	311364	173741112	23·6220236	8·2327463	·001792115
559	13.43	312481	174676879	23·6431808	8·2376614	·001788909
560	$2^4.5.7$	313600	175616000	23·6643191	8·2425706	·001785714
561	3.11.17	314721	176558481	23·6854386	8·2474740	·001782531
562	2.281	315844	177504328	23·7065392	8·2523715	·001779359
563	.....	316969	178453547	23·7276210	8·2572633	·001776199
564	$2^2.3.47$	318096	179406144	23·7486842	8·2621492	·001773050
565	5.113	319225	180362125	23·7697286	8·2670294	·001769912
566	2.283	320356	181321496	23·7907545	8·2719039	·001766784
567	$3^4.7$	321489	182284263	23·8117618	8·2767726	·001763668
568	$2^3.71$	322624	183250432	23·8327506	8·2816355	·001760563
569	.....	323761	184220009	23·8537209	8·2864928	·001757469
570	2.3.5.19	324900	185193000	23·8746728	8·2913444	·001754386
571	.....	326041	186169411	23·8956065	8·2961903	·001751313
572	$2^2.11.13$	327184	187149248	23·9165215	8·3010304	·001748252
573	3.191	328329	188132517	23·9374184	8·3058651	·001745201
574	2 7.41	329476	189119224	23·9582971	8·3106941	·001742160
575	$5^2.23$	330625	190109375	23·9791576	8·3155175	·001739130
576	$2^6.3^2$	331776	191102976	24·0000000	8·3203353	·001736111
577	.....	332929	192100033	24·0208243	8·3251475	·001733102
578	2.17^2	334084	193100552	24·0416306	8·3299542	·001730104
579	3.193	335241	194104539	24·0624188	8·3347553	·001727116
580	$2^2.5.29$	336400	195112000	24·0831891	8·3395509	·001724138
581	7.83	337561	196122941	24·1039416	8·3443410	·001721170
582	2.3.97	338724	197137368	24·1246762	8·3491256	·001718213
583	11.53	339889	198155287	24·1453929	8·3539047	·001715266
584	$2^3.73$	341056	199176704	24·1660919	8·3586784	·001712329
585	$3^2.5.13$	342225	200201625	24·1867732	8·3634466	·001709402
586	2.293	343396	201230056	24·2074369	8·3682095	·001706485
587	.....	344569	202262003	24·2280829	8·3729668	·001703578
588	$2^2.3.7^2$	345744	203297472	24·2487113	8·3777188	·001700680
589	19.31	346921	204336469	24·2693222	8·3824655	·001697793
590	2.5.59	348100	205379000	24·2899156	8·3872065	·001694915
591	3.197	349281	206425071	24·3104916	8·3919423	·001692047
592	$2^4.37$	350464	207474688	24·3310501	8·3966729	·001689189
593	.....	351649	208527857	24·3515913	8·4013981	·001686341
594	$2.3^3.11$	352836	209584584	24·3721152	8·4061180	·001683502
595	5.7.17	354025	210644875	24·3926218	8·4108326	·001680672
596	$2^2.149$	355216	211708736	24·4131112	8·4155419	·001677852
597	3.199	356409	212776173	24·4335834	8·4202460	·001675042
598	2.13.23	357604	213847192	24·4540385	8·4249448	·001672241
599	.....	358801	214921799	24·4744765	8·4296383	·001669449

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
600	$2^3.3.5^2$	360000	216000000	24·4948974	8·4343267	·001666667
601	.....	361201	217081801	24·5153013	8·4390098	·001663894
602	2.7.43	362404	218167208	24·5356883	8·4436877	·001661130
603	$3^2.67$	363609	219256227	24·5560583	8·4483605	·001658375
604	$2^2.151$	364816	220348864	24·5764115	8·4530281	·001655629
605	5.11^2	366025	221445125	24·5967478	8·4576906	·001652893
606	2.3.101	367236	222545016	24·6170673	8·4623479	·001650165
607	.....	368449	223648543	24·6373700	8·4670001	·001647446
608	$2^5.19$	369664	224755712	24·6576560	8·4716471	·001644737
609	3.7.29	370881	225866529	24·6779254	8·4762892	·001642036
610	2.5.61	372100	226981000	24·6981781	8·4809261	·001639344
611	13.47	373321	228099131	24·7184142	8·4855579	·001636661
612	$2^2.3^2.17$	374544	229220928	24·7386338	8·4901848	·001633987
613	.....	375769	230346397	24·7588368	8·4948065	·001631321
614	2.307	376996	231475544	24·7790234	8·4994233	·001628664
615	3.5.41	378225	232608375	24·7991935	8·5040350	·001626016
616	$2^3.7.11$	379456	233744896	24·8193473	8·5086417	·001623377
617	.....	380689	234885113	24·8394847	8·5132435	·001620746
618	2.3.103	381924	236029032	24·8596058	8·5178403	·001618123
619	.....	383161	237176659	24·8797106	8·5224321	·001615509
620	$2^2.5.31$	384400	238328000	24·8997992	8·5270189	·001612903
621	$3^3.23$	385641	239483061	24·9198716	8·5316009	·001610306
622	2.311	386884	240641848	24·9399278	8·5361780	·001607717
623	7.89	388129	241804367	24·9599679	8·5407501	·001605136
624	$2^4.3.13$	389376	242970624	24·9799920	8·5453173	·001602564
625	5^4	390625	244140625	25·0000000	8·5498797	·001600000
626	2.313	391876	245314376	25·0199920	8·5544372	·001597444
627	3.11.19	393129	246491883	25·0399681	8·5589899	·001594896
628	$2^2.157$	394384	247673152	25·0599282	8·5635377	·001592357
629	17.37	395641	248858189	25·0798724	8·5680807	·001589825
630	$2.3^2.5.7$	396900	250047000	25·0998008	8·5726189	·001587302
631	.....	398161	251239591	25·1197134	8·5771523	·001584786
632	$2^3.79$	399424	252435968	25·1396102	8·5816809	·001582278
633	3.211	400689	253636137	25·1594913	8·5862047	·001579779
634	2.317	401956	254840104	25·1793566	8·5907238	·001577287
635	5.127	403225	256047875	25·1992063	8·5952380	·001574803
636	$2^2.3.53$	404496	257259456	25·2190404	8·5997476	·001572327
637	$7^2.13$	405769	258474853	25·2388589	8·6042525	·001569859
638	2.11.29	407044	259694072	25·2586619	8·6087526	·001567398
639	$3^2.71$	408321	260917119	25·2784493	8·6132480	·001564945
640	$2^7.5$	409600	262144000	25·2982213	8·6177388	·001562500
641	.....	410881	263374721	25·3179778	8·6222248	·001560062
642	2.3.107	412164	264609288	25·3377189	8·6267063	·001557632
643	.....	413449	265847707	25·3574447	8·6311830	·001555210
644	$2^2.7.23$	414736	267089984	25·3771551	8·6356551	·001552795
645	3.5.43	416025	268336125	25·3968502	8·6401226	·001550388
646	2.17.19	417316	269586136	25·4165301	8·6445855	·001547988
647	.....	418609	270840023	25·4361947	8·6490437	·001545595
648	$2^3.3^4$	419904	272097792	25·4558441	8·6534974	·001543210
649	11.59	421201	273359449	25·4754784	8·6579465	·001540832
650	$2.5^2.13$	422500	274625000	25·4950976	8·6623911	·001538462
651	3.7.31	423801	275894451	25·5147016	8·6668310	·001536098
652	$2^2.163$	425104	277167808	25·5342907	8·6712665	·001533742
653	.....	426409	278445077	25·5538647	8·6756974	·001531394
654	2.3.109	427716	279726264	25·5734237	8·6801237	·001529052
655	5.131	429025	281011375	25·5929678	8·6845456	·001526718
656	$2^4.41$	430336	282300416	25·6124969	8·6889630	·001524390
657	$3^2.73$	431649	283593393	25·6320112	8·6933759	·001522070
658	2.7.47	432964	284890312	25·6515107	8·6977843	·001519757
659	.....	434281	286191179	25·6709953	8·7021882	·001517451

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
660	$2^2.3.5.11$	435600	287496000	25·6904652	8·7065877	·001515152
661	.....	436921	288804781	25·7099203	8·7109827	·001512859
662	2.331	438244	290117528	25·7293607	8·7153734	·001510574
663	3.13.17	439569	291434247	25·7487864	8·7197596	·001508296
664	$2^3.83$	440896	292754944	25·7681975	8·7241414	·001506024
665	5.7.19	442225	294079625	25·7875939	8·7285187	·001503759
666	$2.3^2.37$	443556	295408296	25·8069758	8·7328918	·001501502
667	23.29	444889	296740963	25·8263431	8·7372604	·001499250
668	$2^2.167$	446224	298077632	25·8456960	8·7416246	·001497006
669	3.223	447561	299418309	25·8650343	8·7459846	·001494768
670	2.5.67	448900	300763000	25·8843582	8·7503401	·001492537
671	11.61	450241	302111711	25·9036677	8·7546913	·001490313
672	$2^5.3.7$	451584	303464448	25·9229628	8·7590383	·001488095
673	.....	452929	304821217	25·9422435	8·7633809	·001485884
674	2.337	454276	306182024	25·9615100	8·7677192	·001483680
675	$3^3.5^2$	455625	307546875	25·9807621	8·7720532	·001481481
676	$2^2.13^2$	456976	308915776	26·0000000	8·7763830	·001479290
677	.....	458329	310288733	26·0192237	8·7807084	·001477105
678	2.3.113	459684	311665752	26·0384331	8·7850296	·001474926
679	7.97	461041	313046839	26·0576284	8·7893466	·001472754
680	$2^3.5.17$	462400	314432000	26·0768096	8·7936593	·001470588
681	3.227	463761	315821241	26·0959767	8·7979679	·001468429
682	2.11.31	465124	317214568	26·1151297	8·8022721	·001466276
683	.....	466489	318611987	26·1342687	8·8065722	·001464129
684	$2^2.3^2.19$	467856	320013504	26·1533937	8·8108681	·001461988
685	5.137	469225	321419125	26·1725047	8·8151598	·001459854
686	2.7^3	470596	322828856	26·1916017	8·8194474	·001457726
687	3.229	471969	324242703	26·2106848	8·8237307	·001455604
688	$2^4.43$	473344	325660672	26·2297541	8·8280099	·001453488
689	13.53	474721	327082769	26·2488095	8·8322850	·001451379
690	2.3.5.23	476100	328509000	26·2678511	8·8365559	·001449275
691	.....	477481	329939371	26·2868789	8·8408227	·001447178
692	$2^2.173$	478864	331373888	26·3058929	8·8450854	·001445087
693	$3^2.7.11$	480249	332812557	26·3248932	8·8493440	·001443001
694	2.347	481636	334255384	26·3438797	8·8535985	·001440922
695	5.139	483025	335702375	26·3628527	8·8578489	·001438849
696	$2^3.3.29$	484416	337153536	26·3818119	8·8620952	·001436782
697	17.41	485809	338608873	26·4007576	8·8663375	·001434720
698	2.349	487204	340068392	26·4196896	8·8705757	·001432665
699	3.233	488601	341532099	26·4386081	8·8748099	·001430615
700	$2^2.5^2.7$	490000	343000000	26·4575131	8·8790400	·001428571
701	.....	491401	344472101	26·4764046	8·8832661	·001426534
702	$2.3^3.13$	492804	345948408	26·4952826	8·8874882	·001424501
703	19.37	494209	347428927	26·5141472	8·8917063	·001422475
704	$2^6.11$	495616	348913664	26·5329983	8·8959204	·001420455
705	3.5.47	497025	350402625	26·5518361	8·9001304	·001418440
706	2.353	498436	351895816	26·5706605	8·9043366	·001416431
707	7.101	499849	353393243	26·5894716	8·9085387	·001414427
708	$2^2.3.59$	501264	354894912	26·6082694	8·9127369	·001412429
709	.....	502681	356400829	26·6270539	8·9169311	·001410437
710	2.5.71	504100	357911000	26·6458252	8·9211214	·001408451
711	$3^2.79$	505521	359425431	26·6645833	8·9253078	·001406470
712	$2^3.89$	506944	360944128	26·6833281	8·9294902	·001404494
713	23.31	508369	362467097	26·7020598	8·9336687	·001402525
714	2.3.7.17	509796	363994344	26·7207784	8·9378433	·001400560
715	5.11.13	511225	365525875	26·7394839	8·9420140	·001398601
716	$2^2.179$	512656	367061696	26·7581763	8·9461809	·001396648
717	3.239	514089	368601813	26·7768557	8·9503438	·001394700
718	2.359	515524	370146232	26·7955220	8·9545029	·001392758
719	.....	516961	371694959	26·8141754	8·9586581	·001390821

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
720	$2^4.3^2.5$	518400	373248000	26·8328157	8·9628095	·001388889
721	7.103	519841	374805361	26·8514432	8·9669570	·001386963
722	2.19^2	521284	376367048	26·8700577	8·9711007	·001385042
723	3.241	522729	377933067	26·8886593	8·9752406	·001383126
724	$2^2.181$	524176	379503424	26·9072481	8·9793766	·001381215
725	$5^2.29$	525625	381078125	26·9258240	8·9835089	·001379310
726	$2.3.11^2$	527076	382657176	26·9443872	8·9876373	·001377410
727	.....	528529	384240583	26·9629375	8·9917620	·001375516
728	$2^3.7.13$	529984	385828352	26·9814751	8·9958829	·001373626
729	3^6	531441	387420489	27·0000000	9·0000000	·001371742
730	2.5.73	532900	389017000	27·0185122	9·0041134	·001369863
731	17.43	534361	390617891	27·0370117	9·0082229	·001367989
732	$2^2.3.61$	535824	392223168	27·0554985	9·0123288	·001366120
733	.....	537289	393832837	27·0739727	9·0164309	·001364256
734	2.367	538756	395446904	27·0924344	9·0205293	·001362398
735	$3.5.7^2$	540225	397065375	27·1108834	9·0246239	·001360544
736	$2^5.23$	541696	398688256	27·1293199	9·0287149	·001358696
737	11.67	543169	400315553	27·1477439	9·0328021	·001356852
738	$2.3^2.41$	544644	401947272	27·1661554	9·0368857	·001355014
739	.....	546121	403583419	27·1845544	9·0409655	·001353180
740	$2^2.5.37$	547600	405224000	27·2029410	9·0450419	·001351351
741	3.13.19	549081	406869021	27·2213152	9·0491142	·001349528
742	2.7.53	550564	408518488	27·2396769	9·0531831	·001347709
743	.....	552049	410172407	27·2580263	9·0572482	·001345895
744	$2^3.3.31$	553536	411830784	27·2763634	9·0613098	·001344086
745	5.149	555025	413493625	27·2946881	9·0653677	·001342282
746	2.373	556516	415160936	27·3130006	9·0694220	·001340483
747	$3^2.83$	558009	416832723	27·3313007	9·0734726	·001338688
748	$2^2.11.17$	559504	418508992	27·3495887	9·0775197	·001336898
749	7.107	561001	420189749	27·3678644	9·0815631	·001335113
750	$2.3.5^3$	562500	421875000	27·3861279	9·0856030	·001333333
751	.....	564001	423564751	27·4043792	9·0896392	·001331558
752	$2^4.47$	565504	425259008	27·4226184	9·0936719	·001329787
753	3.251	567009	426957777	27·4408455	9·0977010	·001328021
754	2.13.29	568516	428661064	27·4590604	9·1017265	·001326260
755	5.151	570025	430368875	27·4772633	9·1057485	·001324503
756	$2^2.3^3.7$	571536	432081216	27·4954542	9·1097669	·001322751
757	.....	573049	433798093	27·5136330	9·1137818	·001321004
758	2.379	574564	435519512	27·5317998	9·1177931	·001319261
759	3.11.23	576081	437245479	27·5499546	9·1218010	·001317523
760	$2^3.5.19$	577600	438976000	27·5680975	9·1258053	·001315789
761	.....	579121	440711081	27·5862284	9·1298061	·001314060
762	2.3.127	580644	442450728	27·6043475	9·1338034	·001312336
763	7.109	582169	444194947	27·6224546	9·1377971	·001310616
764	$2^2.191$	583696	445943744	27·6405499	9·1417874	·001308901
765	$3^2.5.17$	585225	447697125	27·6586334	9·1457742	·001307190
766	2.383	586756	449455096	27·6767050	9·1497576	·001305483
767	13.59	588289	451217663	27·6947648	9·1537375	·001303781
768	$2^8.3$	589824	452984832	27·7128129	9·1577139	·001302083
769	.....	591361	454756609	27·7308492	9·1616869	·001300390
770	2.5.7.11	592900	456533000	27·7488739	9·1656565	·001298701
771	3.257	594441	458314011	27·7668868	9·1696225	·001297017
772	$2^2.193$	595984	460099648	27·7848880	9·1735852	·001295337
773	.....	597529	461889917	27·8028775	9·1775445	·001293661
774	$2.3^2.43$	599076	463684824	27·8208555	9·1815003	·001291990
775	$5^2.31$	600625	465484375	27·8388218	9·1854527	·001290323
776	$2^3.97$	602176	467288576	27·8567766	9·1894018	·001288660
777	3.7.37	603729	469097433	27·8747197	9·1933474	·001287001
778	2.389	605284	470910952	27·8926514	9·1972897	·001285347
779	19.41	606841	472729139	27·9105715	9·2012286	·001283697

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
780	$2^2.3.5.13$	608400	474552000	27·9284801	9·2051641	·001284051
781	11.71	609961	476379541	27·9463772	9·2090962	·001280410
782	2.17.23	611524	478211768	27·9642629	9·2130250	·001278772
783	$3^3.29$	613089	480048687	27·9821372	9·2169505	·001277139
784	$2^4.7^2$	614656	481890304	28·0000000	9·2208726	·00127551.0
785	5.157	616225	483736625	28·0178515	9·2247914	·001273885
786	2.3.131	617796	485587656	28·0356915	9·2287068	·001272265
787	.. ..	619369	487443403	28·0535203	9·2326189	·001270648
788	$2^2.197$	620944	489303872	28·0713377	9·2365277	·001269036
789	3.263	622521	491169069	28·0891438	9·2404333	·001267427
790	2.5.79	624100	493039000	28·1069386	9·2443 55	·001265823
791	7.113	625681	494913671	28·1247222	9·2482344	·001264223
792	$2^3.3^2.11$	627264	496793088	28·1424946	9·2521300	·001262626
793	13.61	628849	498677257	28·1602557	9·2560224	·001261034
794	2.397	630436	500566184	28·1780056	9·2599114	·001259446
795	3.5.53	632025	502459875	28·1957444	9·2637973	·001257862
796	$2^2.199$	633616	504358336	28·2134720	9·2676798	·001256281
797	.....	635209	506261573	28·2311884	9·2715592	·001254705
798	2.3.7.19	636804	508169592	28·2488938	9·2754352	·001253133
799	17.47	638401	510082399	28·2665881	9·2793081	·001251564
800	$2^5.5^2$	640000	512000000	28·2842712	9·2831777	·001250000
801	$3^2.89$	641601	513922401	28·3019434	9·2870440	·001248439
802	2.401	643204	515849608	28·3196045	9·2909072	·001246883
803	11.73	644809	517781627	28·3372546	9·2947671	·001245330
804	$2^2.3.67$	646416	519718464	28·3548938	9·2986239	·001243781
805	5.7.23	648025	521660125	28·3725219	9·3024775	·001242236
806	2.13.31	649636	523606616	28·3901391	9·3063278	·001240695
807	3.269	651249	525557943	28·4077454	9·3101750	·001239157
808	$2^3.101$	652864	527514112	28·4253408	9·3140190	·001237624
809	.....	654481	529475129	28·4429253	9·3178599	·001236094
810	$2.3^4.5$	656100	531441000	28·4604989	9·3216975	·001234568
811	.....	657721	533411731	28·4780617	9·3255320	·001233046
812	$2^2.7.29$	659344	535387328	28·4956137	9·3293634	·001231527
813	3.271	660969	537367797	28·5131549	9·3331916	·001230012
814	2.11.37	662596	539353144	28·5306852	9·3370167	·001228501
815	5.163	664225	541343375	28·5482048	9·3408386	·001226994
816	$2^4.3.17$	665856	543338496	28·5657137	9·3446575	·001225490
817	19.43	667489	545338513	28·5832119	9·3484731	·001223990
818	2.409	669124	547343432	28·6006993	9·3522857	·001222494
819	$3^2.7.13$	670761	549353259	28·6181760	9·3560952	·001221001
820	$2^2.5.41$	672400	551368000	28·6356421	9·3599016	·001219512
821	.....	674041	553387661	28·6530976	9·3637049	·001218027
822	2.3.137	675684	555412248	28·6705424	9·3675051	·001216545
823	.....	677329	557441767	28·6879766	9·3713022	·001215067
824	2^3 103	678 76	5594762 4	28·7054002	9·5750963	·001213592
825	$3.5^2.11$	680625	561515625	28·7228132	9·3788873	·001212121
826	2.7.59	682276	563559976	28·7402157	9·3826752	·001210654
827	.....	683929	565609283	28·7576077	9·3864600	·001209190
828	$2^2.3^2.23$	685584	567663552	28·7749891	9·3902419	·001207729
829	.....	687241	569722789	28·7923601	9·3940206	·001206273
830	2.5.83	688900	571787000	28·8097206	9·3977964	·001204819
831	3.277	690561	575856191	28·8270706	9·4015691	·001203369
832	$2^6.13$	692224	575930368	28·8444102	9·4053387	·001201923
833	$7^2.17$	693889	578009537	28·8617394	9·4091054	·001200480
834	2.3.139	695556	580093704	28·8790582	9·4128690	·001199041
835	5.167	697225	582182875	28·8963666	9·4166297	·001197605
836	$2^2.11.19$	698896	584277056	28·9136646	9·4203873	·001196172
837	$3^3.31$	700569	586376253	28·9309523	9·4241420	·001194743
838	2.419	702244	588480472	28·9482297	9·4278936	·001193317
839	.....	703921	590589719	28·9654967	9·4316423	·001191895

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
840	$2^3.3.5.7$	705600	592704000	28·9827535	9·4353880	·001190476
841	29^2	707281	594823321	29·0000000	9·4391307	·001189061
842	2.421	708964	596947688	29·0172363	9·4428704	·001187648
843	3.281	710649	599077107	29·0344623	9·4466072	·001186240
844	$2^2.211$	712336	601211584	29·0516781	9·4503410	·001184834
845	5.13^2	714025	603351125	29·0688837	9·4540719	·001183432
846	$2.3^2.47$	715716	605495736	29·0860791	9·4577999	·001182033
847	7.11^2	717409	607645423	29·1032644	9·4615249	·001180638
848	$2^4.53$	719104	609800192	29·1204396	9·4652470	·001179245
849	3.283	720801	611960049	29·1376046	9·4689661	·001177856
850	$2.5^2.17$	722500	614125000	29·1547595	9·4726824	·001176471
851	23.37	724201	616295051	29·1719043	9·4763957	·001175088
852	$2^2.3.71$	725904	618470208	29·1890390	9·4801061	·001173709
853	.....	727609	620650477	29·2061637	9·4838136	·001172333
854	2.7.61	729316	622835864	29·2232784	9·4875182	·001170960
855	$3^2.5.19$	731025	625026375	29·2403830	9·4912200	·001169591
856	$2^3.107$	732736	627222016	29·2574777	9·4949188	·001168224
857	.....	734449	629422793	29·2745623	9·4986147	·001166861
858	2.3.11.13	736164	631628712	29·2916370	9·5023078	·001165501
859	.....	737881	633839779	29·3087018	9·5059980	·001164144
860	$2^2.5.43$	739600	636056000	29·3257566	9·5096854	·001162791
861	3.7.41	741321	638277381	29·3428015	9·5133699	·001161440
862	2.431	743044	640503928	29·3598365	9·5170515	·001160093
863	.....	744769	642735647	29·3768616	9·5207303	·001158749
864	$2^5.3^3$	746496	644972544	29·3938769	9·5244063	·001157407
865	5.173	748225	647214625	29·4108823	9·5280794	·001156069
866	2.433	749956	649461896	29·4278779	9·5317497	·001154734
867	3.17^2	751689	651714363	29·4448637	9·5354172	·001153403
868	$2^2.7.31$	753424	653972032	29·4618397	9·5390818	·001152074
869	11.79	755161	656234909	29·4788059	9·5427437	·001150748
870	2.3.5.29	756900	658503000	29·4957624	9·5464027	·001149425
871	13.67	758641	660776311	29·5127091	9·5500589	·001148106
872	$2^3.109$	760384	663054848	29·5296461	9·5537123	·001146789
873	$3^2.97$	762129	665338617	29·5465734	9·5573630	·001145475
874	2.19.23	763876	667627624	29·5634910	9·5610108	·001144165
875	$5^3.7$	765625	669921875	29·5803989	9·5646559	·001142857
876	$2^2.3.73$	767376	672221376	29·5972972	9·5682982	·001141553
877	.....	769129	674526133	29·6141858	9·5719377	·001140251
878	2.439	770884	676836152	29·6310648	9·5755745	·001138952
879	3.293	772641	679151439	29·6479342	9·5792085	·001137656
880	$2^4.5.11$	774400	681472000	29·6647939	9·5828397	·001136364
881	.....	776161	683797841	29·6816442	9·5864682	·001135074
882	$2.3^2.7^2$	777924	686128968	29·6984848	9·5900939	·001133787
883	.....	779689	688465387	29·7153159	9·5937169	·001132503
884	$2^2.13.17$	781456	690807104	29·7321375	9·5973373	·001131222
885	3.5.59	783225	693154125	29·7489496	9·6009548	·001129944
886	2.443	784996	695506456	29·7657521	9·6045696	·001128668
887	.....	786769	697864103	29·7825452	9·6081817	·001127396
888	$2^3.3.37$	788544	700227072	29·7993289	9·6117911	·001126126
889	7.127	790321	702595369	29·8161030	9·6153977	·001124859
890	2.5.89	792100	704969000	29·8328678	9·6190017	·001123596
891	$3^4.11$	793881	707347971	29·8496231	9·6226030	·001122334
892	$2^2.223$	795664	709732288	29·8663690	9·6262016	·001121076
893	19.47	797449	712121957	29·8831056	9·6297975	·001119821
894	2.3.149	799236	714516984	29·8998328	9·6333907	·001118568
895	5.179	801025	716917375	29·9165506	9·6369812	·001117318
896	$2^7.7$	802816	719323136	29·9332591	9·6405690	·001116071
897	3.13.23	804609	721734273	29·9499583	9·6441542	·001114827
898	2.449	806404	724150792	29·9666481	9·6477367	·001113586
899	29.31	808201	726572699	29·9833287	9·6513166	·001112347

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
900	$2^2.3^2.5^2$	810000	729000000	30·0000000	9·6548938	·001111111
901	17.53	811801	731432701	30·0166620	9·6584684	·001109878
902	2.11.41	813604	733870808	30·0333148	9·6620403	·001108647
903	3.7.43	815409	736314327	30·0499584	9·6656096	·001107420
904	$2^3.113$	817216	738763264	30·0665928	9·6691762	·001106195
905	5.181	819025	741217625	30·0832179	9·6727403	·001104972
906	2.3.151	820836	743677416	30·0998339	9·6763017	·001103753
907	.....	822649	746142643	30·1164407	9·6798604	·001102536
908	$2^2.227$	824464	748613312	30·1330383	9·6834166	·001101322
909	$3^2.101$	826281	751089429	30·1496269	9·6869701	·001100110
910	2.5.7.13	828100	753571000	30·1662063	9·6905211	·001098901
911	.....	829921	756058031	30·1827765	9·6940694	·001097695
912	$2^4.3.19$	831744	758550528	30·1993377	9·6976151	·001096491
913	11.83	833569	761048497	30·2158899	9·7011583	·001095290
914	2.457	835396	763551944	30·2324329	9·7046989	·001094092
915	3.5.61	837225	766060875	30·2489669	9·7082369	·001092896
916	$2^2.229$	839056	768575296	30·2654919	9·7117723	·001091703
917	7.131	840889	771095213	30·2820079	9·7153051	·001090513
918	$2.3^3.17$	842724	773620632	30·2985148	9·7188354	·001089325
919	.....	844561	776151559	30·3150128	9·7223631	·001088139
920	$2^3.5.23$	846400	778688000	30·3315018	9·7258883	·001086957
921	3.307	848241	781229961	30·3479818	9·7294109	·001085776
922	2.461	850084	783777448	30·3644529	9·7329309	·001084599
923	13.71	851929	786330467	30·3809151	9·7364484	·001083423
924	$2^2.3.7.11$	853776	788889024	30·3973683	9·7399634	·001082251
925	$5^2.37$	855625	791453125	30·4138127	9·7434758	·001081081
926	2.463	857476	794022776	30·4302481	9·7469857	·001079914
927	$3^2.103$	859329	796597983	30·4466747	9·7504930	·001078749
928	$2^5.29$	861184	799178752	30·4630924	9·7539979	·001077586
929	.....	863041	801765089	30·4795013	9·7575002	·001076426
930	2.3.5.31	864900	804357000	30·4959014	9·7610001	·001075269
931	$7^2.19$	866761	806954491	30·5122926	9·7644974	·001074114
932	$2^2.233$	868624	809557568	30·5286750	9·7679922	·001072961
933	3.311	870489	812166237	30·5450487	9·7714845	·001071811
934	2.467	872356	814780504	30·5614136	9·7749743	·001070664
935	5.11.17	874225	817400375	30·5777697	9·7784616	·001069519
936	$2^3.3^2.13$	876096	820025856	30·5941171	9·7829466	·001068376
937	.....	877969	822656953	30·6104557	9·7854288	·001067236
938	2.7.67	879844	825293672	30·6267857	9·7889087	·001066098
939	3.313	881721	827936019	30·6431069	9·7923861	·001064963
940	$2^2.5.47$	883600	830584000	30·6594194	9·7958611	·001063830
941	.....	885481	833237621	30·6757233	9·7993336	·001062699
942	2.3.157	887364	835896888	30·6920185	9·8028036	·001061571
943	23.41	889249	838561807	30·7083051	9·8062711	·001060445
944	$2^4.59$	891136	841232384	30·7245830	9·8097362	·001059322
945	$3^3.5.7$	893025	843908625	30·7408523	9·8131989	·001058201
946	2.11.43	894916	846590536	30·7571130	9·8166591	·001057082
947	.....	896809	849278123	30·7733651	9·8201169	·001055966
948	$2^2.3.79$	898704	851971392	30·7896086	9·8235723	·001054852
949	13.73	900601	854670349	30·8058436	9·8270252	·001053741
950	$2.5^2.19$	902500	857375000	30·8220700	9·8304757	·001052632
951	3.317	904401	860085351	30·8382879	9·8339238	·001051525
952	$2^3.7.17$	906304	862801408	30·8544972	9·8373695	·001050420
953	.....	908209	865523177	30·8706981	9·8408127	·001049318
954	$2.3^2.53$	910116	868250664	30·8868904	9·8442536	·001048218
955	5.191	912025	870983875	30·9030743	9·8476920	·001047120
956	$2^2.239$	913936	873722816	30·9192497	9·8511280	·001046025
957	3.11.29	915849	876467493	30·9354166	9·8545617	·001044932
958	2.479	917764	879217912	30·9515751	9·8579929	·001043841
959	7.137	919681	881974079	30·9677251	9·8614218	·001042753

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
960	$2^6.3.5$	921600	884736000	30·9838668	9·8648483	·001041667
961	31^2	923521	887503681	31·0000000	9·8682724	·001040583
962	2.13.37	925444	890277128	31·0161248	9·8716941	·001039501
963	$3^2.107$	927369	893056347	31·0322413	9·8751135	·001038422
964	$2^2.241$	929296	895841344	31·0483494	9·8785305	·001037344
965	5.193	931225	898632125	31·0644491	9·8819451	·001036269
966	2.3.7.23	933156	901428696	31·0805405	9·8853574	·001035197
967	.....	935089	904231063	31·0966236	9·8887673	·001034126
968	$2^3.11^2$	937024	907039232	31·1126984	9·8921749	·001033058
969	3.17.19	938961	909853209	31·1287648	9·8955801	·001031992
970	2.5.97	940900	912673000	31·1448230	9·8989830	·001030928
971	.....	942841	915498611	31·1608729	9·9023835	·001029866
972	$2^2.3^5$	944784	918330048	31·1769145	9·9057817	·001028807
973	7.139	946729	921167317	31·1929479	9·9091776	·001027749
974	2.487	948676	924010424	31·2089731	9·9125712	·001026694
975	$3.5^2.13$	950625	926859375	31·2249900	9·9159624	·001025641
976	$2^4.61$	952576	929714176	31·2409987	9·9193513	·001024590
977	.....	954529	932574833	31·2569992	9·9227379	·001023541
978	2.3.163	956484	935441352	31·2729915	9·9261222	·001022495
979	11.89	958441	938313739	31·2889757	9·9295042	·001021450
980	$2^2.5.7^2$	960400	941192000	31·3049517	9·9328839	·001020408
981	$3^2.109$	962361	944076141	31·3209195	9·9362613	·001019368
982	2.491	964324	946966168	31·3368792	9·9396363	·001018330
983	.....	966289	949862087	31·3528308	9·9430092	·001017294
984	$2^3.3.41$	968256	952763904	31·3687743	9·9463797	·001016260
985	5.197	970225	955671625	31·3847097	9·9497479	·001015228
986	2.17.29	972196	958585256	31·4006369	9·9531138	·001014199
987	3.7.47	974169	961504803	31·4165561	9·9564775	·001013171
988	$2^2.13.19$	976144	964430272	31·4324673	9·9598389	·001012146
989	23.43	978121	967361669	31·4483704	9·9631981	·001011122
990	$2.3^2.5.11$	980100	970299000	31·4642654	9·9665549	·001010101
991	.....	982081	973242271	31·4801525	9·9699095	·001009082
992	$2^5.31$	984064	976191488	31·4960315	9·9732619	·001008065
993	3.331	986049	979146657	31·5119025	9·9766120	·001007049
994	2.7.71	988036	982107784	31·5277655	9·9799599	·001006036
995	5.199	990025	985074875	31·5436206	9·9833055	·001005025
996	$2^2.3.83$	992016	988047936	31·5594677	9·9866488	·001004016
997	.....	994009	991026973	31·5753068	9·9899900	·001003009
998	2.499	996004	994011992	31·5911380	9·9933289	·001002004
999	$3^3.37$	998001	997002999	31·6069613	9·9966656	·001001001
1000	$2^3.5^3$	1000000	1000000000	31·6227766	10·0000000	·001000000
1001	7.11.13	1002001	1003003001	31·6385840	10·0033322	·0009990010
1002	2.3.167	1004004	1006012008	31·6543836	10·0066622	·0009980040
1003	17.59	1006009	1009027027	31·6701752	10·0099899	·0009970090
1004	$2^2.251$	1008016	1012048064	31·6859590	10·0133155	·0009960159
1005	3.5.67	1010025	1015075125	31·7017349	10·0166389	·0009950249
1006	2.503	1012036	1018108216	31·7175030	10·0199601	·0009940358
1007	19.53	1014049	1021147343	31·7332633	10·0232791	·0009930487
1008	$2^4.3^2.7$	1016064	1024192512	31·7490157	10·0265958	·0009920635
1009	.....	1018081	1027243729	31·7647603	10·0299104	·0009910803
1010	2.5.101	1020100	1030301000	31·7804972	10·0332228	·0009900990
1011	3.337	1022121	1033364331	31·7962262	10·0365330	·0009891197
1012	$2^2.11.23$	1024144	1036433728	31·8119474	10·0398410	·0009881423
1013	.....	1026169	1039509197	31·8276609	10·0431469	·0009871668
1014	$2.3.13^2$	1028196	1042590744	31·8433666	10·0464506	·0009861933
1015	5.7.29	1030225	1045678375	31·8590646	10·0497521	·0009852217
1016	$2^3.127$	1032256	1048772096	31·8747549	10·0530514	·0009842520
1017	$3^2.113$	1034289	1051871913	31·8904374	10·0563485	·0009832842
1018	2.509	1036324	1054977832	31·9061123	10·0596435	·0009823183
1019	.....	1038361	1058089859	31·9217794	10·0629364	·0009813543

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1020	$2^2.3.5.17$	1040400	1061208000	31·9374388	10·0662271	·0009803922
1021	.....	1042441	1064332261	31·9530906	10·0695156	·0009794319
1022	2.7.73	1044484	1067462648	31·9687347	10·0728020	·0009784736
1023	3.11.31	1046529	1070599167	31·9843712	10·0760863	·0009775171
1024	2^{10}	1048576	1073741824	32·0000000	10·0793684	·0009765625
1025	$5^2.41$	1050625	1076890625	32·0156212	10·0826484	·0009756098
1026	$2.3^3.19$	1052676	1080045576	32·0312348	10·0859262	·0009746589
1027	13.79	1054729	1083206683	32·0468407	10·0892019	·0009737098
1028	$2^2.257$	1056784	1086373952	32·0624391	10·0924755	·0009727626
1029	3.7^3	1058841	1089547389	32·0780298	10·0957469	·0009718173
1030	2.5.103	1060900	1092727000	32·0936131	10·0990163	·0009708738
1031	....	1062961	1095912791	32·1091887	10·1022835	·0009699321
1032	$2^3.3.43$	1065024	1099104768	32·1247568	10·1055487	·0009689922
1033	..,.....	1067089	1102302937	32·1403173	10·1088117	·0009680542
1034	2.11.47	1069156	1105507304	32·1558704	10·1120726	·0009671180
1035	$3^2.5.23$	1071225	1108717875	32·1714159	10·1153314	·0009661836
1036	$2^2.7.37$	1073296	1111934656	32·1869539	10·1185882	·0009652510
1037	17.61	1075369	1115157653	32·2024844	10·1218428	·0009643202
1038	2.3.173	1077444	1118386872	32·2180074	10·1250953	·0009633911
1039	.....	1079521	1121622319	32·2335229	10·1283457	·0009624639
1040	$2^4.5.13$	1081600	1124864000	32·2490310	10·1315941	·0009615385
1041	3.347	1083681	1128111921	32·2645316	10·1348403	·0009606148
1042	2.521	1085764	1131366088	32·2800248	10·1380845	·0009596929
1043	7.149	1087849	1134626507	32·2955105	10·1413266	·0009587738
1044	$2^2.3^2.29$	1089936	1137893184	32·3109888	10·1445667	·0009578544
1045	5.11.19	1092025	1141166125	32·3264598	10·1478047	·0009569378
1046	2.523	1094116	1144445336	32·3419233	10·1510406	·0009560229
1047	3.349	1096209	1147730823	32·3573794	10·1542744	·0009551098
1048	$2^3.131$	1098304	1151022592	32·3728281	10·1575062	·0009541985
1049	.....	1100401	1154320649	32·3882695	10·1607359	·0009532888
1050	$2.3.5^2.7$	1102500	1157625000	32·4037035	10·1639636	·0009523810
1051	.....	1104601	1160935651	32·4191301	10·1671893	·0009514748
1052	$2^2.263$	1106704	1164252608	32·4345495	10·1704129	·0009505703
1053	$3^4.13$	1108809	1167575877	32·4499615	10·1736344	·0009496676
1054	2.17.31	1110916	1170905464	32·4653662	10·1768539	·0009487666
1055	5.211	1113025	1174241375	32·4807635	10·1800714	·0009478673
1056	$2^5.3.11$	1115136	1177583616	32·4961536	10·1832868	·0009469697
1057	7.151	1117249	1180932193	32·5115364	10·1865002	·0009460738
1058	2.23^2	1119364	1184287112	32·5269119	10·1897116	·0009451796
1059	3.353	1121481	1187648379	32·5422802	10·1929209	·0009442871
1060	$2^2.5.53$	1123600	1191016000	32·5576412	10·1961283	·0009433962
1061	.....	1125721	1194389981	32·5729949	10·1993336	·0009425071
1062	$2.3^2.59$	1127844	1197770328	32·5883415	10·2025369	·0009416196
1063	.....	1129969	1201157047	32·6036807	10·2057382	·0009407338
1064	$2^3.7.19$	1132096	1204550144	32·6190129	10·2089375	·0009398496
1065	3.5.71	1134225	1207949625	32·6343377	10·2121347	·0009389671
1066	2.13.41	1136356	1211355496	32·6496554	10·2153300	·0009380863
1067	11.97	1138489	1214767763	32·6649659	10·2185233	·0009372071
1068	$2^2.3.89$	1140624	1218186432	32·6802693	10·2217146	·0009363296
1069	.....	1142761	1221611509	32·6955654	10·2249039	·0009354537
1070	2.5.107	1144900	1225043000	32·7108544	10·2280912	·0009345794
1071	$3^2.7.17$	1147041	1228480911	32·7261363	10·2312766	·0009337068
1072	$2^4.67$	1149184	1231925248	32·7414111	10·2344599	·0009328358
1073	29.37	1151329	1235376017	32·7566787	10·2376413	·0009319664
1074	2.3.179	1153476	1238833224	32·7719392	10·2408207	·0009310987
1075	$5^2.43$	1155625	1242296875	32·7871926	10·2439981	·0009302326
1076	$2^2.269$	1157776	1245766976	32·8024389	10·2471735	·0009293680
1077	3.359	1159929	1249243533	32·8176782	10·2503470	·0009285051
1078	$2.7^2.11$	1162084	1252726552	32·8329103	10·2535186	·0009276438
1079	13.83	1164241	1256216039	32·8481354	10·2566881	·0009267841

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1080	$2^3.3^3.5$	1166400	1259712000	32·8633535	10·2598557	·0009259259
1081	23.47	1168561	1263214441	32·8785644	10·2630913	·0009250694
1082	2.541	1170724	1266723368	32·8937684	10·2661850	·0009242144
1083	3.19^2	1172889	1270238787	32·9089653	10·2693467	·0009233610
1084	$2^2.271$	1175056	1273760704	32·9241553	10·2725065	·0009225092
1085	5.7.31	1177225	1277289125	32·9393382	10·2756644	·0009216590
1086	2.3.181	1179396	1280824056	32·9545141	10·2788203	·0009208103
1087	.....	1181569	1284365503	32·9696830	10·2819743	·0009199632
1088	$2^6.17$	1183744	1287913472	32·9848450	10·2851264	·0009191176
1089	$3^2.11^2$	1185921	1291467969	33·0000000	10·2882765	·0009182736
1090	2.5.109	1188100	1295029000	33·0151480	10·2914247	·0009174312
1091	.....	1190281	1298596571	33·0302891	10·2945709	·0009165903
1092	$2^2.3.7.13$	1192464	1302170688	33·0454233	10·2977153	·0009157509
1093	.....	1194649	1305751357	33·0605505	10·3008577	·0009149131
1094	2.547	1196836	1309338584	33·0756708	10·3039982	·0009140768
1095	3.5.73	1199025	1312932375	33·0907842	10·3071368	·0009132420
1096	$2^3.137$	1201216	1316532736	33·1058907	10·3102735	·0009124088
1097	.....	1203409	1320139673	33·1209903	10·3134083	·0009115770
1098	$2.3^2.61$	1205604	1323753192	33·1360830	10·3165411	·0009107468
1099	7.157	1207801	1327373299	33·1511689	10·3196721	·0009099181
1100	$2^2.5^2.11$	1210000	1331000000	33·1662479	10·3228012	·0009090909
1101	3.367	1212201	1334633301	33·1813200	10·3259284	·0009082652
1102	2.19.29	1214404	1338273208	33.1963853	10·3290537	·0009074410
1103	.....	1216609	1341919727	33·2114438	10·3321770	·0009066183
1104	$2^4.3.23$	1218816	1345572864	33·2264955	10·3352985	·0009057971
1105	5.13.17	1221025	1349232625	33·2415403	10·3384181	·0009049774
1106	2.7.79	1223236	1352899016	33·2565783	10·3415358	·0009041591
1107	$3^3.41$	1225449	1356572043	33·2716095	10·3446517	·0009033424
1108	$2^2.277$	1227664	1360251712	33·2866339	10·3477657	·0009025271
1109	.....	1229881	1363938029	33·3016516	10·3508778	·0009017133
1110	2.3.5.37	1232100	1367631000	33·3166625	10·3539880	·0009009009
1111	11.101	1234321	1371330631	33·3316666	10·3570964	·0009000900
1112	$2^3.139$	1236544	1375036928	33·3466640	10·3602029	·0008992806
1113	3.7.53	1238769	1378749897	33·3616546	10·3633076	·0008984726
1114	2.557	1240996	1382469544	33·3766385	10·3664103	·0008976661
1115	5.223	1243225	1386195875	33·3916157	10·3695113	·0008968610
1116	$2^2.3^2.31$	1245456	1389928896	33·4065862	10·3726103	·0008960573
1117	.....	1247689	1393668613	33·4215499	10·3757076	·0008952551
1118	2.13.43	1249924	1397415032	33·4365070	10·3788030	·0008944544
1119	3.373	1252161	1401168159	33·4514573	10·3818965	·0008936550
1120	$2^5.5.7$	1254400	1404928000	33·4664011	10·3849882	·0008928571
1121	19.59	1256641	1408694561	33·4813381	10·3880781	·0008920607
1122	2.3.11.17	1258884	1412467848	33·4962684	10·3911661	·0008912656
1123	.....	1261129	1416247867	33·5111921	10·3942523	·0008904720
1124	$2^2.281$	1263376	1420034624	33·5261092	10·3973366	·0008896797
1125	$3^2.5^3$	1265625	1423828125	33·5410196	10·4004192	·0008888889
1126	2.563	1267876	1427628376	33·5559234	10·4034999	·0008880995
1127	$7^2.23$	1270129	1431435383	33·5708206	10·4065787	·0008873114
1128	$2^3.3.47$	1272384	1435249152	33·5857112	10·4096557	·0008865248
1129	.....	1274641	1439069689	33·6005952	10·4127310	·0008857396
1130	2.5.113	1276900	1442897000	33·6154726	10·4158044	·0008849558
1131	3.13.29	1279161	1446731091	33·6303434	10·4188760	·0008841733
1132	$2^2.283$	1281424	1450571968	33·6452077	10·4219458	·0008833923
1133	11.103	1283689	1454419637	33·6600653	10·4250138	·0008826125
1134	$2.3^4.7$	1285956	1458274104	33·6749165	10·4280800	·0008818341
1135	5.227	1288225	1462135375	33·6897610	10·4311443	·0008810571
1136	$2^4.71$	1290496	1466003456	33·7045991	10·4342069	·0008802817
1137	3.379	1292769	1469878353	33·7194306	10·4372677	·0008795077
1138	2.569	1295044	1473760072	33·7342556	10·4403267	·0008787351
1139	17.67	1297321	1477648619	33·7490741	10·4433839	·0008779638

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1140	$2^2.3.5.19$	1299600	1481544000	33·7638860	10·4464393	·0008771930
1141	7.163	1301881	1485446221	33·7786915	10·4494929	·0008764242
1142	2.571	1304164	1489355288	33·7934905	10·4525448	·0008756567
1143	$3^2.127$	1306449	1493271207	33·8082830	10·4555948	·0008748906
1144	$2^3.11.13$	1308736	1497193984	33·8230691	10·4586431	·0008741259
1145	5.229	1311025	1501123625	33·8378486	10·4616896	·0008733624
1146	2.3.191	1313316	1505060136	33·8526218	10·4647343	·0008726003
1147	31.37	1315609	1509003523	33·8673884	10·4677773	·0008718396
1148	$2^2.7.41$	1317904	1512953792	33·8821487	10·4708185	·0008710801
1149	3.383	1320201	1516910949	33·8969025	10·4738579	·0008703220
1150	$2.5^2.23$	1322500	1520875000	33·9116499	10·4768955	·0008695652
1151	.....	1324801	1524845951	33·9263909	10·4799314	·0008688097
1152	$2^7.3^2$	1327104	1528823808	33·9411255	10·4829656	·0008680556
1153	.....	1329409	1532808577	33·9558537	10·4859980	·0008673027
1154	2.577	1331716	1536800264	33·9705755	10·4890286	·0008665511
1155	3.5.7.11	1334025	1540798875	33·9852910	10·4920575	·0008658009
1156	$2^2.17^2$	1336336	1544804416	34·0000000	10·4950847	·0008650519
1157	13.89	1338649	1548816893	34·0147027	10·4981101	·0008643042
1158	2.3.193	1340964	1552836312	34·0293990	10·5011337	·0008635579
1159	19.61	1343281	1556862679	34·0440890	10·5041556	·0008628128
1160	$2^3.5.29$	1345600	1560896000	34·0587727	10·5071757	·0008620690
1161	$3^2.43$	1347921	1564936281	34·0734501	10·5101942	·0008613264
1162	2.7.83	1350244	1568983528	34·0881211	10·5132109	·0008605852
1163	.....	1352569	1573037747	34·1027858	10·5162259	·0008598452
1164	$2^2.3.97$	1354896	1577098944	34·1174442	10·5192391	·0008591065
1165	5.233	1357225	1581167125	34·1320963	10·5222506	·0008583691
1166	2.11.53	1359556	1585242296	34·1467422	10·5252604	·0008576329
1167	3.389	1361889	1589324463	34·1613817	10·5282685	·0008568980
1168	$2^4.73$	1364224	1593413632	34·1760150	10·5312749	·0008561644
1169	7.167	1366561	1597509809	34·1906420	10·5342795	·0008554320
1170	$2.3^2.5.13$	1368900	1601613000	34·2052627	10·5372825	·0008547009
1171	.....	1371241	1605723211	34·2198773	10·5402837	·0008539710
1172	$2^2.293$	1373584	1609840448	34·2344855	10·5432832	·0008532423
1173	3.17.23	1375929	1613964717	34·2490875	10·5462810	·0008525149
1174	2.587	1378276	1618096024	34·2636834	10·5492771	·0008517888
1175	$5^2.47$	1380625	1622234375	34·2782730	10·5522715	·0008510638
1176	$2^3.3.7^2$	1382976	1626379776	34·2928564	10·5552642	·0008503401
1177	11.107	1385329	1630532233	34·3074336	10·5582552	·0008496177
1178	2.19.31	1387684	1634691752	34·3220046	10·5612445	·0008488964
1179	$3^2.131$	1390041	1638858339	34·3365694	10·5642322	·0008481764
1180	$2^2.5.59$	1392400	1643032000	34·3511281	10·5672181	·0008474576
1181	.....	1394761	1647212741	34·3656805	10·5702024	·0008467401
1182	2.3.197	1397124	1651400668	34·3802268	10·5731849	·0008460237
1183	7.13^2	1399489	1655595487	34·3947670	10·5761658	·0008453085
1184	$2^5.37$	1401856	1659797504	34·4093011	10·5791449	·0008445946
1185	3.5.79	1404225	1664006625	34·4238289	10·5821225	·0008438819
1186	2.593	1406596	1668222856	34·4383507	10·5850983	·0008431703
1187	.....	1408969	1672446203	34·4528663	10·5880725	·0008424600
1188	$2^2.3^3.11$	1411344	1676676672	34·4673759	10·5910450	·0008417508
1189	29.41	1413721	1680914269	34·4818793	10·5940158	·0008410429
1190	2.5.7.17	1416100	1685159000	34·4963766	10·5969850	·0008403361
1191	3.397	1418481	1689410871	34·5108678	10·5999525	·0008396306
1192	$2^3.149$	1420864	1693669888	34·5253530	10·6029184	·0008389262
1193	.....	1423249	1697936057	34·5398321	10·6058826	·0008382230
1194	2.3.199	1425636	1702209384	34·5543051	10·6088451	·0008375209
1195	5.239	1428025	1706489875	34·5687720	10·6118060	·0008368201
1196	$2^2.13.23$	1430416	1710777536	34·5832329	10·6147652	·0008361204
1197	$3^2.7.19$	1432809	1715072373	34·5976879	10·6177228	·0008354219
1198	2.599	1435204	1719374392	34·6121366	10·6206788	·0008347245
1199	11.109	1437601	1723683599	34·6265794	10·6236331	·0008340284

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1200	$2^4.3.5^2$	1440000	1728000000	34·6410162	10·6265857	·0008333333
1201	.....	1442401	1732323601	34·6554469	10·6295367	·0008326395
1202	2.601	1444804	1736654408	34·6698716	10·6324860	·0008319468
1203	3.401	1447209	1740992427	34·6842904	10·6354338	·0008312552
1204	$2^2.7.43$	1449616	1745337664	34·6987031	10·6383799	·0008305648
1205	5.241	1452025	1749690125	34·7131099	10·6413244	·0008298755
1206	$2.3^2.67$	1454436	1754049816	34·7275107	10·6442672	·0008291874
1207	17.71	1456849	1758416743	34·7419055	10·6472085	·0008285004
1208	$2^3.151$	1459264	1762790912	34·7562944	10·6501480	·0008278146
1209	3.13.31	1461681	1767172329	34·7706773	10·6530860	·0008271299
1210	$2.5.11^2$	1464100	1771561000	34·7850543	10·6560223	·0008264463
1211	7.173	1466521	1775956931	34·7994253	10·6589570	·0008257638
1212	$2^2.3.101$	1468944	1780360128	34·8137904	10·6618902	·0008250825
1213	.....	1471369	1784770597	34·8281495	10·6648217	·0008244023
1214	2.607	1473796	1789188344	34·8425028	10·6677516	·0008237232
1215	$3^5.5$	1476225	1793613375	34·8568501	10·6706799	·0008230453
1216	$2^6.19$	1478656	1798045696	34·8711915	10·6736066	·0008223684
1217	.....	1481089	1802485313	34·8855271	10·6765317	·0008216927
1218	2.3.7.29	1483524	1806932232	34·8998567	10·6794552	·0008210181
1219	23.53	1485961	1811386459	34·9141805	10·6823771	·0008203445
1220	$2^2.5.61$	1488400	1815848000	34·9284984	10·6852973	·0008196721
1221	3.11.37	1490841	1820316861	34·9428104	10·6882160	·0008190008
1222	2.13.47	1493284	1824793048	34·9571166	10·6911331	·0008183306
1223	.....	1495729	1829276567	34·9714169	10·6940486	·0008176615
1224	$2^3.3^2.17$	1498176	1833767424	34·9857114	10·6969625	·0008169935
1225	$5^2.7^2$	1500625	1838265625	35·0000000	10·6998748	·0008163265
1226	2.613	1503076	1842771176	35·0142828	10·7027855	·0008156607
1227	3.409	1505529	1847284083	35·0285598	10·7056947	·0008149959
1228	$2^2.307$	1507984	1851804352	35·0428309	10·7086023	·0008143322
1229	.....	1510441	1856331989	35·0570963	10·7115082	·0008136696
1230	2.3.5.41	1512900	1860867000	35·0713558	10·7144127	·0008130081
1231	.....	1515361	1865409391	35·0856096	10·7173155	·0008123477
1232	$2^4.7.11$	1517824	1869959168	35·0998575	10·7202168	·0008116883
1233	$3^2.137$	1520289	1874516337	35·1140997	10·7231165	·0008110300
1234	2.617	1522756	1879080904	35·1283361	10·7260146	·0008103728
1235	5.13.19	1525225	1883652875	35·1425568	10·7289112	·0008097166
1236	$2^2.3.103$	1527696	1888232256	35·1567917	10·7318062	·0008090615
1237	.....	1530169	1892819053	35·1710108	10·7346997	·0008084074
1238	2.619	1532644	1897413272	35·1852242	10·7375916	·0008077544
1239	3.7.59	1535121	1902014919	35·1994318	10·7404819	·0008071025
1240	$2^3.5.31$	1537600	1906624000	35·2136337	10·7433707	·0008064516
1241	17.73	1540081	1911240521	35·2278299	10·7462579	·0008058018
1242	$2.3^2.23$	1542564	1915864488	35·2420204	10·7491436	·0008051530
1243	11.113	1545049	1920495907	35·2562051	10·7520277	·0008045052
1244	$2^2.311$	1547536	1925134784	35·2703842	10·7549103	·0008038585
1245	3.5.83	1550025	1929781125	35·2845575	10·7577913	·0008032129
1246	2.7.89	1552516	1934434936	35·2987252	10·7606708	·0008025682
1247	29.43	1555009	1939096223	35·3128872	10·7635488	·0008019246
1248	$2^5.3.13$	1557504	1943764992	35·3270435	10·7664252	·0008012821
1249	.....	1560001	1948441249	35·3411941	10·7693001	·0008006405
1250	2.5^4	1562500	1953125000	35·3553391	10·7721735	·0008000000
1251	$3^2.139$	1565001	1957816251	35·3694784	10·7750453	·0007993605
1252	$2^2.313$	1567504	1962515008	35·3836120	10·7779156	·0007987220
1253	7.179	1570009	1967221277	35·3977400	10·7807843	·0007980846
1254	2.3.11.19	1572516	1971935064	35·4118624	10·7836516	·0007974482
1255	5.251	1575025	1976656375	35·4259792	10·7865173	·0007968127
1256	$2^3.157$	1577536	1981385216	35·4400903	10·7893815	·0007961783
1257	3.419	1580049	1986121593	35·4541958	10·7922441	·0007955449
1258	2.17.37	1582564	1990865512	35·4682957	10·7951053	·0007949126
1259	.....	1585081	1995616979	35·4823900	10·7979649	·0007942812

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1260	$2^2.3^2.5.7$	1587600	2000376000	35·4964787	10·8008230	·0007936508
1261	13.97	1590121	2005142581	35·5105618	10·8036797	·0007930214
1262	2.631	1592644	2009916728	35·5246393	10·8065348	·0007923930
1263	3.421	1595169	2014698447	35·5387113	10·8093884	·0007917656
1264	$2^4.79$	1597696	2019487744	35·5527777	10·8122404	·0007911392
1265	5.11.23	1600225	2024284625	35·5668385	10·8150909	·0007905138
1266	2.3.211	1602756	2029089096	35·5808937	10·8179400	·0007898894
1267	7.181	1605289	2033901163	35·5949434	10·8207876	·0007892660
1268	$2^2.317$	1607824	2038720832	35·6089876	10·8236336	·0007886435
1269	$3^3.47$	1610361	2043548109	35·6230262	10·8264782	·0007880221
1270	2.5.127	1612900	2048383000	35·6370593	10·8293213	·0007874016
1271	31.41	1615441	2053225511	35·6510869	10·8321629	·0007867821
1272	$2^3.3.53$	1617984	2058075648	35·6651090	10·8350030	·0007861635
1273	19.67	1620529	2062933417	35·6791255	10·8378416	·0007855460
1274	$2.7^2.13$	1623076	2067798824	35·6931366	10·8406788	·0007849294
1275	$3.5^2.17$	1625625	2072671875	35·7071421	10·8435144	·0007843137
1276	$2^2.11.29$	1628176	2077552576	35·7211422	10·8463485	·0007836991
1277	.....	1630729	2082440933	35·7351367	10·8491812	·0007830854
1278	$2.3^2.71$	1633284	2087336952	35·7491258	10·8520125	·0007824726
1279	.....	1635841	2092240639	35·7631095	10·8548422	·0007818608
1280	$2^8.5$	1638400	2097152000	35·7770876	10·8576704	·0007812500
1281	3.7.61	1640961	2102071041	35·7910603	10·8604972	·0007806401
1282	2.641	1643524	2106997768	35·8050276	10·8633225	·0007800312
1283	.....	1646089	2111932187	35·8189894	10·8661464	·0007794232
1284	$2^2.3.107$	1648656	2116874304	35·8329457	10·8689687	·0007788162
1285	5.257	1651225	2121824125	35·8468966	10·8717897	·0007782101
1286	2.643	1653796	2126781656	35·8608421	10·8746091	·0007776050
1287	$3^2.11.13$	1656369	2131746903	35·8747822	10·8774271	·0007770008
1288	$2^3.7.23$	1658944	2136719872	35·8887169	10·8802436	·0007763975
1289	.....	1661521	2141700569	35·9026461	10·8830587	·0007757952
1290	2.3.5.43	1664100	2146689000	35·9165699	10·8858723	·0007751938
1291	.....	1666681	2151685171	35·9304884	10·8886845	·0007745933
1292	$2^2.17.19$	1669264	2156689088	35·9444015	10·8914952	·0007739938
1293	3.431	1671849	2161700757	35·9583092	10·8943044	·0007733952
1294	2.647	1674436	2166720184	35·9722115	10·8971123	·0007727975
1295	5.7.37	1677025	2171747375	35·9861084	10·8999186	·0007722008
1296	$2^4.3^4$	1679616	2176782336	36·0000000	10·9027235	·0007716049
1297	.....	1682209	2181825073	36·0138862	10·9055269	·0007710100
1298	2.11.59	1684804	2186875592	36·0277671	10·9083290	·0007704160
1299	3.433	1687401	2191933899	36·0416426	10·9111296	·0007698229
1300	$2^2.5^2.13$	1690000	2197000000	36·0555128	10·9139287	·0007692308
1301	.....	1692601	2202073901	36·0693776	10·9167265	·0007686395
1302	2.3.7.31	1695204	2207155608	36·0832371	10·9195228	·0007680492
1303	.....	1697809	2212245127	36·0970913	10·9223177	·0007674597
1304	$2^3.163$	1700416	2217342464	36·1109402	10·9251111	·0007668712
1305	$3^2.5.29$	1703025	2222447625	36·1247837	10·9279031	·0007662835
1306	2.653	1705636	2227560616	36·1386220	10·9306937	·0007656968
1307	.....	1708249	2232681443	36·1524550	10·9334829	·0007651109
1308	$2^2.3.109$	1710864	2237810112	36·1662826	10·9362706	·0007645260
1309	7.11.17	1713481	2242946629	36·1801050	10·9390569	·0007639419
1310	2.5.131	1716100	2248091000	36·1939221	10·9418418	·0007633588
1311	3.19.23	1718721	2253243231	36·2077340	10·9446253	·0007627765
1312	$2^5.41$	1721344	2258403328	36·2215406	10·9474074	·0007621951
1313	13.101	1723969	2263571297	36·2353419	10·9501880	·0007616146
1314	$2.3^2.73$	1726596	2268747144	36·2491379	10·9529673	·0007610350
1315	5.263	1729225	2273930875	36·2629287	10·9557451	·0007604563
1316	$2^2.7.47$	1731856	2279122496	36·2767143	10·9585215	·0007598784
1317	3.439	1734489	2284322013	36·2904946	10·9612965	·0007593014
1318	2.659	1737124	2289529432	36·3042697	10·9640701	·0007587253
1319	.....	1739761	2294744759	36·3180396	10·9668423	·0007581501

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1320	$2^3.3.5.11$	1742400	2299968000	36·3318042	10·9696131	·0007575758
1321	.....	1745041	2305199161	36·3455637	10·9723825	·0007570023
1322	2.661	1747684	2310438248	36·3593179	10·9751505	·0007564297
1323	$3^3.7^2$	1750329	2315685267	36·3730670	10·9779171	·0007558579
1324	$2^2.331$	1752976	2320940224	36·3868108	10·9806823	·0007552870
1325	$5^2.53$	1755625	2326203125	36·4005494	10·9834462	·0007547170
1326	2.3.13.17	1758276	2331473976	36·4142829	10·9862086	·0007541478
1327	.....	1760929	2336752783	36·4280112	10·9889696	·0007535795
1328	$2^4.83$	1763584	2342039552	36·4417343	10·9917293	·0007530120
1329	3.443	1766241	2347334289	36·4554523	10·9944876	·0007524454
1330	2.5.7.19	1768900	2352637000	36·4691650	10·9972445	·0007518797
1331	11^3	1771561	2357947691	36·4828727	11·0000000	·0007513148
1332	$2^2.3^2.37$	1774224	2363266368	36·4965752	11·0027541	·0007507508
1333	31.43	1776889	2368593037	36·5102725	11·0055069	·0007501875
1334	2.23.29	1779556	2373927704	36·5239647	11·0082583	·0007496252
1335	3.5.89	1782225	2379270375	36·5376518	11·0110082	·0007490637
1336	$2^3.167$	1784896	2384621056	36·5513338	11·0137569	·0007485030
1337	7.191	1787569	2389979753	36·5650106	11·0165041	·0007479432
1338	2.3.223	1790244	2395346472	36·5786823	11·0192500	·0007473842
1339	13.103	1792921	2400721219	36·5923489	11·0219945	·0007468260
1340	$2^2.5.67$	1795600	2406104000	36·6060104	11·0247377	·0007462687
1341	$3^2.149$	1798281	2411494821	36·6196668	11·0274795	·0007457122
1342	2.11.61	1800964	2416893688	36·6333181	11·0302199	·0007451565
1343	17.79	1803649	2422300607	36·6469644	11·0329590	·0007446016
1344	$2^6.3.7$	1806636	2427715584	36·6606056	11·0356967	·0007440476
1345	5.269	1809025	2433138625	36·6742416	11·0384330	·0007434944
1346	2.673	1811716	2438569736	36·6878726	11·0411680	·0007429421
1347	3.449	1814409	2444008925	36·7014986	11·0439017	·0007423905
1348	$2^2.337$	1817104	2449456192	36·7151195	11·0466339	·0007418398
1349	19.71	1819801	2454911549	36·7287353	11·0493649	·0007412898
1350	$2.3^3.5^2$	1822500	2460375000	36·7423461	11·0520945	·0007407407
1351	7.193	1825201	2465846551	36·7559519	11·0548227	·0007401924
1352	$2^3.13^2$	1827904	2471326208	36·7695526	11·0575497	·0007396450
1353	3.11.41	1830609	2476813977	36·7831483	11·0602752	·0007390983
1354	2.677	1833316	2482309864	36·7967390	11·0629994	·0007385524
1355	5.271	1836025	2487813875	36·8103246	11·0657222	·0007380074
1356	$2^2.3.113$	1838736	2493326016	36·8239053	11·0684437	·0007374631
1357	23.59	1841449	2498846293	36·8374809	11·0711639	·0007369197
1358	2.7.97	1844164	2504374712	36·8510515	11·0738828	·0007363770
1359	$3^2.151$	1846881	2509911279	36·8646172	11·0766003	·0007358352
1360	$2^4.5.17$	1849600	2515456000	36·8781778	11·0793165	·0007352941
1361	.....	1852321	2521008881	36·8917335	11·0820314	·0007347539
1362	2.3.227	1855044	2526569928	36·9052842	11·0847449	·0007342144
1363	29.47	1857769	2532139147	36·9188299	11·0874571	·0007336757
1364	$2^2.11.31$	1860496	2537716544	36·9323706	11·0901679	·0007331378
1365	3.5.7.13	1863225	2543302125	36·9459064	11·0928775	·0007326007
1366	2.683	1865956	2548895896	36·9594372	11·0955857	·0007320644
1367	.....	1868689	2554497863	36·9729631	11·0982926	·0007315289
1368	$2^3.3^2.19$	1871424	2560108032	36·9864840	11·1009982	·0007309942
1369	37^2	1874161	2565726409	37·0000000	11·1037025	·0007304602
1370	2.5.137	1876900	2571353000	37·0135110	11·1064054	·0007299270
1371	3.457	1879641	2576987811	37·0270172	11·1091070	·0007293946
1372	$2^2.7^3$	1882384	2582630848	37·0405184	11·1118073	·0007288630
1373	.....	1885129	2588282117	37·0540146	11·1145064	·0007283321
1374	2.3.229	1887876	2593941624	37·0675060	11·1172041	·0007278020
1375	$5^3.11$	1890625	2599609375	37·0809924	11·1199004	·0007272727
1376	$2^5.43$	1893376	2605285376	37·0944740	11·1225955	·0007267442
1377	$3^4.17$	1896129	2610969633	37·1079506	11·1252893	·0007262164
1378	2.13.53	1898884	2616662152	37·1214224	11·1279817	·0007256894
1379	7.197	1901641	2622362939	37·1348893	11·1306729	·0007251632

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1380	$2^2.3.5.23$	1904400	2628072000	37·1483512	11·1333628	·0007246377
1381	.....	1907161	2633789341	37·1618084	11·1360514	·0007241130
1382	2.691	1909924	2639514968	37·1752606	11·1387386	·0007235890
1383	3.461	1912689	2645248887	37·1887079	11·1414246	·0007230658
1384	$2^3.173$	1915456	2650991104	37·2021505	11·1441093	·0007225434
1385	5.277	1918225	2656741625	37·2155881	11·1467926	·0007220217
1386	$2.3^2.7.11$	1920996	2662500456	37·2290209	11·1494747	·0007215007
1387	19.73	1923769	2668267603	37·2424489	11·1521555	·0007209805
1388	$2^2.347$	1926544	2674043072	37·2558720	11·1548350	·0007204611
1389	3.463	1929321	2679826869	37·2692903	11·1575133	·0007199424
1390	2.5.139	1932100	2685619000	37·2827037	11·1601903	·0007194245
1391	13.107	1934881	2691419471	37·2961124	11·1628659	·0007189073
1392	$2^4.3.29$	1937664	2697228288	37·3095162	11·1655403	·0007183908
1393	7.199	1940449	2703045457	37·3229152	11·1682134	·0007178751
1394	2.17.41	1943236	2708870984	37·3363094	11·1708852	·0007173601
1395	$3^2.5.31$	1946025	2714704875	37·3496988	11·1735558	·0007168459
1396	$2^2.349$	1948816	2720547136	37·3630834	11·1762250	·0007163324
1397	11.127	1951609	2726397773	37·3764632	11·1788930	·0007158196
1398	2.3.233	1954404	2732256792	37·3898382	11·1815598	·0007153076
1399	.....	1957201	2738124199	37·4032084	11·1842252	·0007147963
1400	$2^3.5^2.7$	1960000	2744000000	37·4165738	11·1868894	·0007142857
1401	3.467	1962801	2749884201	37·4299345	11·1895523	·0007137759
1402	2.701	1965604	2755776808	37·4432904	11·1922139	·0007132668
1403	23.61	1968409	2761677827	37·4566416	11·1948743	·0007127584
1404	$2^2.3^3.13$	1971216	2767587264	37·4699880	11·1975334	·0007122507
1405	5.281	1974025	2773505125	37·4833296	11·2001913	·0007117438
1406	2.19.37	1976836	2779431416	37·4966665	11·2028479	·0007112376
1407	3.7.67	1979649	2785366143	37·5099987	11·2055032	·0007107321
1408	27.11	1982464	2791309312	37·5233261	11·2081573	·0007102273
1409	.....	1985281	2797260929	37·5366487	11·2108101	·0007097232
1410	2.3.5.47	1988100	2803221000	37·5499667	11·2134617	·0007092199
1411	17.83	1990921	2809189531	37·5632799	11·2161120	·0007087172
1412	$2^2.353$	1993744	2815166528	37·5765885	11·2187611	·0007082153
1413	$3^2.157$	1996569	2821151997	37·5898922	11·2214089	·0007077141
1414	2.7.101	1999396	2827145944	37·6031913	11·2240554	·0007072136
1415	5.283	2002225	2833148375	37·6164857	11·2267007	·0007067138
1416	$2^3.3.59$	2005056	2839159296	37·6297754	11·2293448	·0007062147
1417	13.109	2007889	2845178713	37·6430604	11·2319876	·0007057163
1418	2.709	2010724	2851206632	37·6563407	11·2346292	·0007052186
1419	3.11.43	2013561	2857243059	37·6696164	11·2372696	·0007047216
1420	$2^2.5.71$	2016400	2863288000	37·6828874	11·2399087	·0007042254
1421	$7^2.29$	2019241	2869341461	37·6961536	11·2425465	·0007037298
1422	$2.3^2.79$	2022084	2875403448	37·7094153	11·2451831	·0007032349
1423	.....	2024929	2881473967	37·7226722	11·2478185	·0007027407
1424	$2^4.89$	2027776	2887553024	37·7359245	11·2504527	·0007022472
1425	$3.5^2.19$	2030625	2893640625	37·7491722	11·2530856	·0007017544
1426	2.23.31	2033476	2899736776	37·7624152	11·2557173	·0007012623
1427	.....	2036329	2905841483	37·7756535	11·2583478	·0007007708
1428	$2^2.3.7.17$	2039184	2911954752	37·7888873	11·2609770	·0007002801
1429	.....	2042041	2918076589	37·8021163	11·2636050	·0006997901
1430	2.5.11.13	2044900	2924207000	37·8153408	11·2662318	·0006993007
1431	3.9.53	2047761	2930345991	37·8285606	11·2688573	·0006988120
1432	$2^3.179$	2050624	2936493568	37·8417759	11·2714816	·0006983240
1433	.....	2053489	29426497..7	37·8549864	11·2741047	·0006978367
1434	2.3.239	2056356	2948814504	37·8681924	11·2767266	·0006973501
1435	5.7.41	2059225	2954987875	37·8813938	11·2793472	·0006968641
1436	$2^2.359$	2062096	296116[illegible]856	37·8945906	11·2819666	·0006963788
1437	3.479	2064969	2967360453	37·9077828	11·2845849	·0006958942
1438	2.719	2067844	2973559672	37·9209704	11·2872019	·0006954103
1439	.....	2070721	2979767519	37·9341538	11·2898177	·0006949270

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1440	$2^5.3^2.5$	2073600	2985984000	37·9473319	11·2924323	·0006944444
1441	11.131	2076481	2992209121	37·9605058	11·2950457	·0006939625
1442	2.7.103	2079364	3098442888	37·9736751	11·2976579	·0006934813
1443	3.13.37	2082249	3004685307	37·9868398	11·3002688	·0006930007
1444	$2^2.19^2$	2085136	3010936384	38·0000000	11·3028786	·0006925208
1445	5.17^2	2088025	3017196125	38·0131556	11·3054871	·0006920415
1446	2.3.241	2090916	3023464536	38·0263067	11·3080945	·0006915629
1447	.....	2093809	3029741623	38·0394532	11·3107006	·0006910850
1448	$2^3.181$	2096704	3036027392	38·0525952	11·3133056	·0006906078
1449	$3^2.7.23$	2099601	3042321849	38·0657326	11·3159094	·0006901312
1450	$2.5^2.29$	2102500	3048625000	38·0788655	11·3185119	·0006896552
1451	.....	2105401	3054936851	38·0919939	11·3211132	·0006891799
1452	$2^2.3.11^2$	2108304	3061257408	38·1051178	11·3237134	·0006887052
1453	.....	2111209	3067586677	38·1182371	11·3263124	·0006882312
1454	2.727	2114116	3073924664	38·1313519	11·3289102	·0006877579
1455	3.5.97	2117025	3080271375	38·1444622	11·3315067	·0006872852
1456	$2^4.7.13$	2119936	3086626816	38·1575681	11·3341022	·0006868132
1457	31.47	2122849	3092990993	38·1706693	11·3366964	·0006863418
1458	2.3^6	2125764	3099363912	38·1837662	11·3392894	·0006858711
1459	.....	2128681	3105745579	38·1968585	11·3418813	·0006854010
1460	$2^2.5.73$	2131600	3112136000	38·2099463	11·3444719	·0006849315
1461	3.487	2134521	3118535181	38·2230297	11·3470614	·0006844627
1462	2.17.43	2137444	3124943128	38·2361085	11·3496497	·0006839945
1463	7.11.19	2140369	3131359847	38·2491829	11·3522368	·0006835270
1464	$2^3.3.61$	2143296	3137785344	38·2622529	11·3548227	·0006830601
1465	5.293	2146225	3144219625	38·2753184	11·3574075	·0006825939
1466	2.733	2149156	3150662696	38·2883794	11·3599911	·0006821282
1467	$3^2.163$	2152089	3157114563	38·3014360	11·3625735	·0006816633
1468	$2^2.367$	2155024	3163575232	38·3144881	11·3651547	·0006811989
1469	13.113	2157961	3170044709	38·3275358	11·3677347	·0006807352
1470	$2.3.5.7^2$	2160900	3176523000	38·3405790	11·3703136	·0006802721
1471	.....	2163841	3183010111	38·3536178	11·3728914	·0006798097
1472	$2^6.23$	2166784	3189506048	38·3666522	11·3754679	·0006793478
1473	3.491	2169729	3196010817	38·3796821	11·3780433	·0006788866
1474	2.11.67	2172676	3202524424	38·3927076	11·3806175	·0006784261
1475	$5^2.59$	2175625	3209046875	38·4057287	11·3831906	·0006779661
1476	$2^2.3^2.41$	2178576	3215578176	38·4187454	11·3857625	·0006775068
1477	7.211	2181529	3222118333	38·4317577	11·3883332	·0006770481
1478	2.739	2184484	3228667352	38·4447656	11·3909028	·0006765900
1479	3.17.29	2187441	3235225239	38·4577691	11·3934712	·0006761325
1480	$2^3.5.37$	2190400	3241792000	38·4707681	11·3960384	·0006756757
1481	.....	2193361	3248367641	38·4837627	11·3986045	·0006752194
1482	2.3.13.19	2196324	3254952168	38·4967530	11·4011695	·0006747638
1483	.....	2199289	3261545587	38·5097390	11·4037332	·0006743088
1484	$2^2.7.53$	2202256	3268147904	38·5227206	11·4062959	·0006738544
1485	$3^3.5.11$	2205225	3274759125	38·5356977	11·4088574	·0006734007
1486	2.743	2208196	3281379256	38·5486705	11·4114177	·0006729475
1487	.....	2211169	3288008303	38·5616389	11·4139769	·0006724950
1488	$2^4.3.31$	2214144	3294646272	38·5746030	11·4165349	·0006720430
1489	.....	2217121	3301293169	38·5875627	11·4190918	·0006715917
1490	2.5.149	2220100	3307949000	38·6005181	11·4216476	·0006711409
1491	3.7.71	2223081	3314613771	38·6134691	11·4242022	·0006706908
1492	$2^2.373$	2226064	3321287488	38·6264158	11·4267556	·0006702413
1493	.....	2229049	3327970157	38·6393582	11·4293079	·0006697924
1494	$2.3^2.83$	2232036	3334661784	38·6522962	11·4318591	·0006693440
1495	5.13.23	2235025	3341362375	38·6652299	11·4344092	·0006688963
1496	$2^3.11.17$	2238016	3348071936	38·6781593	11·4369581	·0006684492
1497	3.499	2241009	3354790473	38·6910843	11·4395059	·0006680027
1498	2.7.107	2244004	3361517992	38·7040050	11·4420525	·0006675567
1499	.....	2247001	3368254499	38·7169214	11·4445980	·0006671114

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1500	$2^2.3.5^3$	2250000	3375000000	38·7298335	11·4471424	·0006666667
1501	19.79	2253001	3381754501	38·7427412	11·4496857	·0006662225
1502	2.751	2256004	3388518008	38·7556447	11·4522278	·0006657790
1503	$3^2.167$	2259009	3395290527	38·7685439	11·4547688	·0006653360
1504	$2^3.47$	2262016	3402072064	38·7814389	11·4573087	·0006648936
1505	5.7.43	2265025	3408862625	38·7943294	11·4598474	·0006644518
1506	2.3.251	2268036	3415662216	38·8072158	11·4623850	·0006640106
1507	11.137	2271049	3422470843	38·8200978	11·4649215	·0006635700
1508	$2^2.13.29$	2274064	3429288512	38·8329757	11·4674568	·0006631300
1509	3.503	2277081	3436115229	38·8458491	11·4699911	·0006626905
1510	2.5.151	2280100	3442951000	38·8587184	11·4725242	·0006622517
1511	.....	2283121	3449795831	38·8715834	11·4750562	·0006618134
1512	$2^3.3^3.7$	2286144	3456649728	38·8844442	11·4775871	·0006613757
1513	17.89	2289169	3463512697	38·8973006	11·4801169	·0006609385
1514	2.757	2292196	3470384744	38·9101529	11·4826455	·0006605020
1515	3,5.101	2295225	3477265875	38·9230009	11·4851731	·0006600660
1516	$2^2.379$	2298256	3484156096	38·9358447	11·4876995	·0006596306
1517	37.41	2301289	3491055413	38·9486841	11·4902249	·0006591958
1518	2.3.11.23	2304324	3597963832	38·9615194	11·4927491	·0006587615
1519	$7^2.31$	2307361	3504881359	38·9743505	11·4952722	·0006583278
1520	$2^4.5.19$	2310400	3511808000	38·9871774	11·4977942	·0006578947
1521	$3^2.13^2$	2313441	3518743761	39·0000000	11·5003151	·0006574622
1522	2.761	2316484	3525688648	39·0128184	11·5028348	·0006570302
1523	.....	2319529	3532642667	39·0256326	11·5053535	·0006565988
1524	$2^2.3.127$	2322576	3539605824	39·0384426	11·5078711	·0006561680
1525	$5^2.61$	2325625	3546578125	39·0512483	11·5103876	·0006557377
1526	2.7.109	2328676	3553559576	39·0640499	11·5129030	·0006553080
1527	3.509	2331729	3560550183	39·0768473	11·5154173	·0006548788
1528	$2^3.191$	2334784	3567549952	39·0896406	11·5179305	·0006544503
1529	11.139	2337841	3574558889	39·1024296	11·5204425	·0006540222
1530	$2.3^2.5.17$	2340900	3581577000	39·1152144	11·5229535	·0006535948
1531	.....	2343961	3588604291	39·1279951	11·5254634	·0006531679
1532	$2^2.383$	2347024	3595640768	39·1407716	11·5279722	·0006527415
1533	3.7.73	2350089	3602686437	39·1535439	11·5304799	·0006523157
1534	2.13.59	2353156	3609741304	39·1663120	11·5329865	·0006518905
1535	5.307	2356225	3616805375	39·1790760	11·5354920	·0006514658
1536	$2^9.3$	2359296	3623878656	39·1918359	11·5379965	·0006510417
1537	29.53	2362369	3630961153	39·2045915	11·5404998	·0006506181
1538	2.769	2365444	3638052872	39·2173431	11·5430021	·0006501951
1539	$3^4.19$	2368521	3645153819	39·2300905	11·5455033	·0006497726
1540	$2^2.5.7.11$	2371600	3652264000	39·2428337	11·5480034	·0006493506
1541	23.67	2374681	3659383421	39·2555728	11·5505025	·0006489293
1542	2.3.257	2377764	3666512088	39·2683078	11·5530004	·0006485084
1543	.....	2380849	3673650007	39·2810387	11·5554973	·0006480881
1544	$2^3.193$	2383936	3680797184	39·2937654	11·5579931	·0006476684
1545	3.5.103	2387025	3687953625	39·3064880	11·5604878	·0006472492
1546	2.773	2390116	3695119336	39·3192065	11·5629815	·0006468305
1547	7.13.17	2393209	3702294323	39·3319208	11·5654740	·0006464124
1548	$2^2.3^2.43$	2396304	3709478592	39·3446311	11·5679655	·0006459948
1549	.....	2399401	3716672149	39·3573373	11·5704559	·0006455778
1550	$2.5^2.31$	2402500	3723875000	39·3700394	11·5729453	·0006451613
1551	3.11.47	2405601	3731087151	39·3827373	11·5754336	·0006447453
1552	$2^4.97$	2408704	3738308608	39·3954312	11·5779208	·0006443299
1553	.....	2411809	3745539377	39·4081210	11·5804069	·0006439150
1554	2.3.7.37	2414916	3752779464	39·4208067	11·5828919	·0006435006
1555	5.311	2418025	3760028875	39·4334883	11·5853759	·0006430868
1556	$2^2.389$	2421136	3767287616	39·4461658	11·5878588	·0006426735
1557	$3^2.173$	2424249	3774555693	39·4588393	11·5903407	·0006422608
1558	2.19.41	2427364	3781833112	39·4715087	11·5928215	·0006418485
1559	.....	2430481	3789119879	39·4841740	11·5953013	·0006414368

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1560	$2^3.3.5.13$	2433600	3796416000	39·4968353	11·5977799	·0006410256
1561	7.223	2436721	3803721481	39·5094925	11·6002576	·0006406150
1562	2.11.71	2439844	3811036328	39·5221457	11·6027342	·0006402049
1563	3.521	2442969	3818360547	39·5347948	11·6052097	·0006397953
1564	$2^2.17.23$	2446096	3825694144	39·5474399	11·6076841	·0006393862
1565	5.313	2449225	3833037125	39·5600809	11·6101575	·0006389776
1566	$2.3^2.29$	2452356	3840389496	39·5727179	11·6126299	·0006385696
1567	.....	2455489	3847751263	39·5853508	11·6151012	·0006381621
1568	$2^5.7^2$	2458624	3855122432	39·5979797	11·6175715	·0006377551
1569	3.523	2461761	3862503009	39·6106046	11·6200407	·0006373486
1570	2.5.157	2464900	3869893000	39·6232255	11·6225088	·0006369427
1571	.....	2468041	3877292411	39·6358424	11·6249759	·0006365372
1572	$2^2.3.131$	2471184	3884701248	39·6484552	11·6274420	·0006361323
1573	$11^2.13$	2474329	3892119517	39·6610640	11·6299070	·0006357279
1574	2.787	2477476	3899547224	39·6736688	11·6323710	·0006353240
1575	$3^2.5^2.7$	2480625	3906984375	39·6862696	11·6348339	·0006349206
1576	$2^3.197$	2483776	3914430976	39·6988665	11·6372957	·0006345178
1577	19.83	2486929	3921887033	39·7114593	11·6397566	·0006341154
1578	2.3.263	2490084	3929352552	39·7240481	11·6422164	·0006337136
1579	.....	2493241	3936827539	39·7366329	11·6446751	·0006333122
1580	$2^2.5.79$	2496400	3944312000	39·7492138	11·6471329	·0006329114
1581	3.17.31	2499561	3951805941	39·7617907	11·6495895	·0006325111
1582	2.7.113	2502724	3959309368	39·7743636	11·6520452	·0006321113
1583	.....	2505889	3966822287	39·7869325	11·6544998	·0006317119
1584	$2^4.3^2.11$	2509056	3974344704	39·7994975	11·6569534	·0006313131
1585	5.317	2512225	3981876625	39·8120585	11·6594059	·0006309148
1586	2.13.61	2515396	3989418056	39·8246155	11·6618574	·0006305170
1587	$3.23^2.$	2518569	3996969003	39·8371686	11·6643079	·0006301197
1588	$2^2.397$	2521744	4004529472	39·8497177	11·6667574	·0006297229
1589	7.227	2524921	4012099469	39·8622628	11·6692058	·0006293266
1590	2.3.5.53	2528100	4019679000	39·8748040	11·6716532	·0006289308
1591	37.43	2531281	4027268071	39·8873413	11·6740996	·0006285355
1592	$2^3.199$	2534464	4034866688	39·8998747	11·6765449	·0006281407
1593	$3^3.59$	2537649	4042474857	39·9124041	11·6789892	·0006277464
1594	2.797	2540836	4050092584	39·9249295	11·6814325	·0006273526
1595	5.11.29	2544025	4057719875	39·9374511	11·6838748	·0006269592
1596	$2^2.3.7.19$	2547216	4065356736	39·9499687	11·6863161	·0006265664
1597	.....	2550409	4073003173	39·9624824	11·6887563	·0006261741
1598	2.17.47	2553604	4080659192	39·9749922	11·6911955	·0006257822
1599	3.13.41	2556801	4088324799	39·9874980	11·6936337	·0006253909
1600	$2^6.5^2$	2560000	4096000000	40·0000000	11·6960709	·0006250000
1601	.....	2563201	4103684801	40·0124980	11·6985071	·0006246096
1602	$2.3^2.89$	2566404	4111379208	40·0249922	11·7009422	·0006242197
1603	7.229	2569609	4119083227	40·0374824	11·7033764	·0006238303
1604	$2^2.401$	2572816	4126796864	40·0499688	11·7058095	·0006234414
1605	3.5.107	2576025	4134520125	40·0624512	11·7082417	·0006230530
1606	2.11.73	2579236	4142253016	40·0749298	11·7106728	·0006226650
1607	.....	2582449	4149995543	40·0874045	11·7131029	·0006222775
1608	$2^3.3.67$	2585664	4157747712	40·0998753	11·7155320	·0006218905
1609	.....	2588881	4165509529	40·1123423	11·7179601	·0006215040
1610	2.5.7.23	2592100	4173281000	40·1248053	11·7203872	·0006211180
1611	$3^2.179$	2595321	4181062131	40·1372645	11·7228133	·0006207325
1612	$2^2.13.31$	2598544	4188852928	40·1497198	11·7252384	·0006203474
1613	.....	2601769	4196653397	40·1621713	11·7276625	·0006199628
1614	2.3.269	2604996	4204463544	40·1746188	11·7300855	·0006195787
1615	5.17.19	2608225	4212285375	40·1870626	11·7325076	·0006191950
1616	$2^4.101$	2611456	4220112896	40·1995025	11·7349286	·0006188119
1617	$3.7^2.11$	2614689	4227952113	40·2119385	11·7373487	·0006184292
1618	2.809	2617924	4235801032	40·2243707	11·7397677	·0006180470
1619	.....	2621161	4243659659	40·2367990	11·7421858	·0006176652

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1620	$2^2.3^4.5$	2624400	4251528000	40·2492236	11·7446029	·0006172840
1621	.....	2627641	4259406061	40·2616443	11·7470190	·0006169031
1622	2.811	2630884	4267293848	40·2740611	11·7494341	·0006165228
1623	3.541	2634129	4275191367	40·2864741	11·7518482	·0006161429
1624	$2^3.7.29$	2637376	4283098624	40·2988836	11·7542613	·0006157635
1625	$5^3.13$	2640625	4291015625	40·3112887	11·7566734	·0006153846
1626	2.3.271	2643876	4298942376	40·3236903	11·7590846	·0006150062
1627	.....	2647129	4306878883	40·3360881	11·7614947	·0006146282
1628	$2^2.11.37$	2650384	4314825152	40·3484820	11·7639039	·0006142506
1629	$3^2.181$	2653641	4322781189	40·3608721	11·7663121	·0006138735
1630	2.5.163	2656900	4330747000	40·3732585	11·7687193	·0006134969
1631	7.233	2660161	4338722591	40·3856410	11·7711255	·0006131208
1632	$2^5.3.17$	2663424	4346707968	40·3980198	11·7735306	·0006127451
1633	23.71	2666689	4354703137	40·4103947	11·7759349	·0006123699
1634	2.19.43	2669956	4362708104	40·4227658	11·7783381	·0006119951
1635	3.5.109	2673225	4370722875	40·4351332	11·7807404	·0006116208
1636	$2^2.409$	2676496	4378747456	40·4474968	11·7831417	·0006112469
1637	.....	2679769	4386781853	40·4598566	11·7855420	·0006108735
1638	$2.3^2.7.13$	2683044	4394826072	40·4722127	11·7879414	·0006105006
1639	11.149	2686321	4402880119	40·4845649	11·7903397	·0006101281
1640	$2^3.5.41$	2689600	4410944000	40·4969135	11·7927371	·0006097561
1641	3.547	2692881	4419017721	40·5092582	11·7951335	·0006093845
1642	2.821	2696164	4427101288	40·5215992	11·7975289	·0006090134
1643	31.53	2699449	4435194707	40·5339364	11·7999234	·0006086427
1644	$2^2.3.137$	2702736	4443297984	40·5462699	11·8023169	·0006082725
1645	5.7.47	2706025	4451411125	40·5585996	11·8047094	·0006079027
1646	2.823	2709316	4459534136	40·5709255	11·8071010	·0006075334
1647	$3^3.61$	2712609	4467667023	40·5832477	11·8094916	·0006071645
1648	$2^4.103$	2715904	4475809792	40·5955663	11·8118812	·0006067961
1649	17.97	2719201	4483962449	40·6078810	11·8142698	·0006064281
1650	$2.3.5^2.11$	2722500	4492125000	40·6201920	11·8166576	·0006060606
1651	13.127	2725801	4500297451	40·6324993	11·8190443	·0006056935
1652	$2^2.7.59$	2729104	4508479808	40·6448029	11·8214301	·0006053269
1653	3.19.29	2732409	4516672077	40·6571027	11·8238149	·0006049607
1654	2.827	2735716	4524874264	40·6693988	11·8261987	·0006045949
1655	5.331	2739025	4533086375	40·6816912	11·8285816	·0006042296
1656	$2^3.3^2.23$	2742336	4541308416	40·6939799	11·8309634	·0006038647
1657	.....	2745649	4549540393	40·7062648	11·8333444	·0006035003
1658	2.829	2748964	4557782312	40·7185461	11·8357244	·0006031363
1659	3.7.79	2752281	4566034179	40·7308237	11·8381034	·0006027728
1660	$2^2.5.83$	2755600	4574296000	40·7430976	11·8404815	·0006024096
1661	11.151	2758921	4582567781	40·7553677	11·8428586	·0006020470
1662	2.3.277	2762244	4590849528	40·7676342	11·8452348	·0006016847
1663	.....	2765569	4599141247	40·7798970	11·8476099	·0006013229
1664	27.13	2768896	4607442944	40·7921561	11·8499843	·0006009615
1665	$3^2.5.37$	2772225	4615754625	40·8044115	11·8523576	·0006006006
1666	$2.7^2.17$	2775556	4624076296	40·8166633	11·8547299	·0006002401
1667	.....,	2778889	4632407963	40·8289113	11·8571014	·0005998800
1668	$2^2.3.139$	2782224	4640749632	40·8411557	11·8594719	·0005995204
1669	.....	2785561	4649101309	40·8533964	11·8618414	·0005991612
1670	2.5.167	2788900	4657463000	40·8656335	11·8642100	·0005988024
1671	3.557	2792241	4665834711	40·8778669	11·8665776	·0005984440
1672	$2^3.11.19$	2795584	4674216448	40·8900966	11·8689443	·0005980861
1673	7.239	2798929	4682608217	40·9023227	11·8713100	·0005977286
1674	$2.3^3.31$	2802276	4691010024	40·9145451	11·8736748	·0005973716
1675	$5^2.67$	2805625	4699421875	40·9267638	11·8760387	·0005970149
1676	$2^2.419$	2808976	4707843776	40·9389790	11·8784016	·0005966587
1677	3.13.43	2812329	4716275733	40·9511905	11·8807636	·0005963029
1678	2.839	2815684	4724717752	40·9633983	11·8831246	·0005959476
1679	23.73	2819041	4733169839	40·9756025	11·8854847	·0005955926

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1680	$2^4.3.5.7$	2822400	4741632000	40·9878031	11·8878439	·0005952381
1681	41^2	2825761	4750104241	41·0000000	11·8902022	·0005948840
1682	2.29^2	2829124	4758586568	41·0121933	11·8925595	·0005945303
1683	$3^2.11.17$	2832489	4767078987	41·0243830	11·8949159	·0005941771
1684	$2^2.421$	2835856	4775581504	41·0365691	11·8972713	·0005938242
1685	5.337	2839225	4784094125	41·0487515	11·8996258	·0005934718
1686	2.3.281	2842596	4792616856	41·0609303	11·9019793	·0005931198
1687	7.241	2845969	4801149703	41·0731055	11·9043319	·0005927682
1688	$2^3.211$	2849344	4809692672	41·0852772	11·9066836	·0005924171
1689	3.563	2852721	4818245769	41·0974452	11·9090344	·0005920663
1690	$2.5.13^2$	2856100	4826809000	41·1096096	11·9113843	·0005917160
1691	19.89	2859481	4835382371	41·1217704	11·9137332	·0005913661
1692	$2^2.3^2.47$	2862864	4843965888	41·1339276	11·9160812	·0005910165
1693	.....	2866249	4852559557	41·1460812	11·9184283	·0005906675
1694	$2.7.11^2$	2869636	4861163384	41·1582313	11·9207744	·0005903188
1695	3.5.113	2873025	4869777375	41·1703777	11·9231196	·0005899705
1696	$2^5.53$	2876416	4878401536	41·1825206	11·9254639	·0005896226
1697	.....	2879809	4887035873	41·1946599	11·9278073	·0005892752
1698	2.3.283	2883204	4895680392	41·2067956	11·9301497	·0005889282
1699	.....	2886601	4904335099	41·2189277	11·9324913	·0005885815
1700	$2^2.5^2.17$	2890000	4913000000	41·2310563	11·9348319	·0005882353
1701	$3^5.7$	2893401	4921675101	41·2431812	11·9371716	·0005878895
1702	2.23.37	2896804	4930360408	41·2553027	11·9395104	·0005875441
1703	13.131	2900209	4939055927	41·2674205	11·9418482	·0005871991
1704	$2^3.3.71$	2903616	4947761664	41·2795349	11·9441852	·0005868545
1705	5.11.31	2907025	4956477625	41·2916456	11·9465213	·0005865103
1706	2.853	2910436	4965203816	41·3037529	11·9488564	·0005861665
1707	3.569	2913849	4973940243	41·3158565	11·9511906	·0005858231
1708	$2^2.7.61$	2917264	4982686912	41·3279566	11·9535239	·0005854801
1709	.....	2920681	4991443829	41·3400532	11·9558563	·0005851375
1710	$2.3^2.5.19$	2924100	5000211000	41·3521463	11·9581878	·0005847953
1711	29.59	2927521	5008988431	41·3642358	11·9605184	·0005844535
1712	$2^4.107$	2930944	5017776128	41·3763217	11·9628481	·0005841121
1713	3.571	2934369	5026574097	41·3884042	11·9651768	·0005837712
1714	2.857	2937796	5035382344	41·4004831	11·9675047	·0005834306
1715	5.7^3	2941225	5044200875	41·4125585	11·9698317	·0005830904
1716	$2^2.3.11.13$	2944656	5053029696	41·4246304	11·9721577	·0005827506
1717	17.101	2948089	5061868813	41·4366987	11·9744829	·0005824112
1718	2.859	2951524	5070718232	41·4487636	11·9768071	·0005820722
1719	$3^2.191$	2954961	5079577959	41·4608249	11·9791304	·0005817336
1720	$2^3.5.43$	2958400	5088448000	41·4728827	11·9814528	·0005813953
1721	.....	2961841	5097328361	41·4849370	11·9837744	·0005810575
1722	2.3.7.41	2965284	5106219048	41·4969878	11·9860950	·0005807201
1723	.....	2968729	5115120067	41·5090351	11·9884148	·0005803831
1724	$2^2.431$	2972176	5124031424	41·5210790	11·9907336	·0005800464
1725	$3.5^2.23$	2975625	5132953125	41·5331193	11·9930516	·0005797101
1726	2.863	2979076	5141885176	41·5451561	11·9953686	·0005793743
1727	11.157	2982529	5150827383	41·5571895	11·9976848	·0005790388
1728	$2^6.3^3$	2985984	5159780352	41·5692194	12·0000000	·0005787037
1729	7.13.19	2989441	5168743489	41·5812457	12·0023144	·0005783690
1730	$2.3.17^2$	2992900	5177717000	41·5932686	12·0046278	·0005780347
1731	3.577	2996361	5186700891	41·6052881	12·0069404	·0005777008
1732	$2^2.433$	2999824	5195695168	41·6173041	12·0092521	·0005773672
1733	.....	3003289	5204699837	41·6293166	12·0115629	·0005770340
1734	$2.3.17^2$	3006756	5213714904	41·6413256	12·0138728	·0005767013
1735	5.347	3010225	5222740375	41·6533312	12·0161818	·0005763689
1736	$2^3.7.31$	3013696	5231776256	41·6653333	12·0184900	·0005760369
1737	$3^3.193$	3017169	5240822553	41·6773319	12·0207973	·0005757052
1738	2.11.79	3020644	5249879272	41·6893271	12·0231037	·0005753740
1739	37.47	3024121	5258946419	41·7013189	12·0254092	·0005750431

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1740	$2^2.3.5.29$	3027600	5268024000	41·7133072	12·0277138	·0005747126
1741	.....	3031081	5277112021	41·7252921	12·0300175	·0005743825
1742	2.13.67	3034564	5286210488	41·7372735	12·0323204	·0005740528
1743	3.7.83	3038049	5295319407	41·7492515	12·0346223	·0005737235
1744	$2^4.109$	3041536	5304438784	41·7612260	12·0369233	·0005733945
1745	5.349	3045025	5313568625	41·7731971	12·0392235	·0005730659
1746	$2.3^2.97$	3048516	5322708936	41·7851648	12·0415229	·0005727377
1747	.....	3052009	5331859723	41·7971291	12·0438213	·0005724098
1748	$2^2.19.23$	3055504	5341020992	41·8090899	12·0461189	·0005720824
1749	3.11.53	3059001	5350192749	41·8210473	12·0484156	·0005717553
1750	$2.5^3.7$	3062500	5359375000	41·8330013	12·0507114	·0005714286
1751	17.103	3066001	5368567751	41·8449519	12·0530063	·0005711022
1752	$2^3.3.73$	3069504	5377771008	41·8568991	12·0553003	·0005707763
1753	.....	3073009	5386984777	41·8688428	12·0575935	·0005704507
1754	2.877	3076516	5396209064	41·8807832	12·0598859	·0005701254
1755	$3^3.5.13$	3080025	5405443875	41·8927201	12·0621773	·0005698006
1756	$2^2.439$	3083536	5414689216	41·9046537	12·0644679	·0005694761
1757	7.251	3087049	5423945093	41·9165838	12·0667576	·0005691520
1758	2.3.293	3090564	5433211512	41·9285106	12·0690464	·0005688282
1759	.....	3094081	5442488479	41·9404339	12·0713344	·0005685048
1760	$2^5.5.11$	3097600	5451776000	41·9523539	12·0736215	·0005681818
1761	3.587	3101121	5461074081	41·9642705	12·0759077	·0005678592
1762	2.881	3104644	5470382728	41·9761837	12·0781930	·0005675369
1763	41.43	3108169	5479701947	41·9880935	12·0804775	·0005672150
1764	$2^2.3^2.7^2$	3111696	5489031744	42·0000000	12·0827612	·0005668934
1765	5.353	3115225	5498372125	42·0119031	12·0850439	·0005665722
1766	2.883	3118756	5507723096	42·0238028	12·0873258	·0005662514
1767	3.19.31	3122289	5517084663	42·0356991	12·0896069	·0005659310
1768	$2^3.13.17$	3125824	5526456832	42·0475921	12·0918870	·0005656109
1769	29.61	3129361	5535839609	42·0594817	12·0941664	·0005652911
1770	2.3.5.59	3132900	5545233000	42·0713679	12·0964449	·0005649718
1771	7.11.23	3136441	5554637011	42·0832508	12·0987226	·0005646527
1772	$2^2.443$	3139984	5564051648	42·0951304	12·1009993	·0005643341
1773	$3^2.197$	3143529	5573476917	42·1070065	12·1032753	·0005640158
1774	2.887	3147076	5582912824	42·1188794	12·1055503	·0005636979
1775	$5^2.71$	3150625	5592359375	42·1307488	12·1078245	·0005633803
1776	$2^4.3.37$	3154176	5601816576	42·1426150	12·1100979	·0005630631
1777	.....	3157729	5611284433	42·1544778	12·1123704	·0005627462
1778	2.7.127	3161284	5620762952	42·1663373	12·1146420	·0005624297
1779	3.593	3164841	5630252139	42·1781934	12·1169128	·0005621135
1780	$2^2.5.89$	3168400	5639752000	42·1900462	12·1191827	·0005617978
1781	13.137	3171961	5649262541	42·2018957	12·1214518	·0005614823
1782	$2.3^4.11$	3175524	5658783768	42·2137418	12·1237200	·0005611672
1783	.....	3179089	5668315687	42·2255846	12·1259874	·0005608525
1784	$2^3.223$	3182656	5677858304	42·2374242	12·1282539	·0005605381
1785	3.5.7.17	3186225	5687411625	42·2492603	12·1305197	·0005602241
1786	2.19.47	3189796	5696975656	42·2610932	12·1327845	·0005599104
1787	.....	3193369	5706550403	42·2729227	12·1350485	·0005595971
1788	$2^2.3.149$	3196944	5716135872	42·2847490	12·1373117	·0005592841
1789	.....	3200521	5725732069	42·2965719	12·1395740	·0005589715
1790	2.5.179	3204100	5735339000	42·3083916	12·1418355	·0005586592
1791	$3^2.199$	3207681	5744956671	42·3202079	12·1440961	·0005583473
1792	$2^6.7$	3211264	5754585088	42·3320210	12·1463559	·0005580357
1793	11.163	3214849	5764224257	42·3438307	12·1486148	·0005577245
1794	2.3.13.23	3218436	5773874184	42·3556371	12·1508729	·0005574136
1795	5.359	3222025	5783534875	42·3674403	12·1531302	·0005571031
1796	$2^2.449$	3225616	5793206336	42·3792402	12·1553866	·0005567929
1797	3.599	3229209	5802888573	42·3910368	12·1576422	·0005564830
1798	2.29.31	3232804	5812581592	42·4028301	12·1598970	·0005561735
1799	7.257	3236401	5822285399	42·4146201	12·1621509	·0005558644

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1800	$2^3.3^2.5^2$	3240000	5832000000	42·4264069	12·1634040	·0005555556
1801	.....	3243601	5841725401	42·4381903	12·1666562	·0005552471
1802	2.17.53	3247204	5851461608	42·4499705	12·1689076	·0005549390
1803	3.601	3250809	5861208627	42·4617475	12·1711582	·0005546312
1804	$2^2.11.41$	3254416	5870966464	42·4735212	12·1734079	·0005543237
1805	5.19^2	3258025	5880735125	42·4852916	12·1756569	·0005540166
1806	2.3.7.43	3261636	5890514616	42·4970587	12·1779050	·0005537099
1807	13.139	3265249	5900304943	42·5088226	12·1801522	·0005534034
1808	$2^4.113$	3268864	5910106112	42·5205833	12·1823987	·0005530973
1809	$3^2.67$	3272481	5919918129	42·5323406	12·1846443	·0005527916
1810	2.5.181	3276100	5929741000	42·5440948	12·1868891	·0005524862
1811	.....	3279721	5939574731	42·5558456	12·1891331	·0005521811
1812	$2^2.3.151$	3283344	5949419328	42·5675933	12·1913762	·0005518764
1813	$7^2.37$	3286969	5959274797	42·5793377	12·1936185	·0005515720
1814	2.907	3290596	5969141144	42·5910789	12·1958599	·0005512679
1815	$3.5.11^2$	3294225	5979018375	42·6028168	12·1981006	·0005509642
1816	$2^3.227$	3297856	5988906496	42·6145515	12·2003404	·0005506608
1817	23.79	3301489	5998805513	42·6262829	12·2025794	·0005503577
1818	$2.3^2.101$	3305124	6008715432	42·6380112	12·2048176	·0005500550
1819	17.107	3308761	6018636259	42·6497362	12·2070549	·0005497526
1820	$2^2.5.7.13$	3312400	6028568000	42·6614580	12·2092915	·0005494505
1821	3.607	3316041	6038510661	42·6731766	12·2115272	·0005491488
1822	2.911	3319684	6048464248	42·6848919	12·2137621	·0005488474
1823	.....	3323329	6058428767	42·6966040	12·2159962	·0005485464
1824	$2^3.3.19$	3326976	6068404224	42·7083130	12·2182295	·0005482456
1825	$5^2.73$	3330625	6078390625	42·7200187	12·2204620	·0005479452
1826	2.11.83	3334276	6088387976	42·7317212	12·2226936	·0005476451
1827	$3^2.7.29$	3337929	6098396283	42·7434206	12·2249244	·0005473454
1828	$2^2.457$	3341584	6108415552	42·7551167	12·2271544	·0005470460
1829	31.59	3345241	6118445789	42·7668095	12·2293836	·0005467469
1830	2.3.5.61	3348900	6128487000	42·7784992	12·2316120	·0005464481
1831	.....	3352561	6138539191	42·7901858	12·2338396	·0005461496
1832	$2^3.229$	3356224	6148602368	42·8018691	12·2360663	·0005458515
1833	3.13.47	3359889	6158676537	42·8135492	12·2382923	·0005455537
1834	2.7.131	3363556	6168761704	42·8252262	12·2405174	·0005452563
1835	5.367	3367225	6178857875	42·8368999	12·2427418	·0005449591
1836	$2^2.3^3.17$	3370896	6188965056	42·8485706	12·2449653	·0005446623
1837	11.167	3374569	6199083253	42·8602380	12·2471880	·0005443658
1838	2.919	3378244	6209212472	42·8719022	12·2494099	·0005440696
1839	3.613	3381921	6219352719	42·8835633	12·2516310	·0005437738
1840	$2^4.5.23$	3385600	6229504000	42·8952212	12·2538513	·0005434783
1841	7.263	3389281	6239666321	42·9068759	12·2560708	·0005431831
1842	2.3.307	3392964	6249839688	42·9185275	12·2582895	·0005428882
1843	19.97	3396649	6260024107	42·9301759	12·2605074	·0005425936
1844	$2^2.461$	3400336	6270219584	42·9418211	12·2627245	·0005422993
1845	$3^2.5.41$	3404025	6280426125	42·9534632	12·2649408	·0005420054
1846	2.13.71	3407716	6290643736	42·9651021	12·2671563	·0005417118
1847	.....	3411409	6300872423	42·9767379	12·2693710	·0005414185
1848	$2^3.3.7.11$	3415104	6311112192	42·9883705	12·2715849	·0005411255
1849	43^2	3418801	6321363049	43·0000000	12·2737980	·0005408329
1850	$2.5^2.37$	3422500	6331625000	43·0116263	12·2760103	·0005405405
1851	3.617	3426201	6341898051	43·0232495	12·2782218	·0005402485
1852	$2^2.463$	3429904	6352182208	43·0348696	12·2804326	·0005399568
1853	17.109	3433609	6362477477	43·0464865	12·2826424	·0005396654
1854	$2.3^2.103$	3437316	6372783864	43·0581003	12·2848515	·0005393743
1855	5.7.53	3441025	6383101375	43·0697109	12·2870598	·0005390836
1856	$2^6.29$	3444736	6393430016	43·0813183	12·2892674	·0005387931
1857	3.619	3448449	6403769793	43·0929225	12·2914740	·0005385030
1858	2.929	3452164	6414120712	43·1045236	12·2936800	·0005382131
1859	11.13^2	3455881	6424482779	43·1161223	12·2958851	·0005379236

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1860	$2^2.3.5.31$	3459600	6434856000	43·1277173	12·2980895	·0005376344
1861	.....	3463321	6445240381	43·1393092	12·3002930	·0005373455
1862	$2.7^2.19$	3467044	6455635928	43·1508980	12·3024958	·0005370569
1863	$3^4.23$	3470769	6466042647	43·1624837	12·3046978	·0005367687
1864	$2^3.233$	3474496	6476460544	43·1740663	12·3068990	·0005364807
1865	5.373	3478225	6486889625	43·1856458	12·3090994	·0005361930
1866	2.3.311	3481956	6497329896	43·1972221	12·3112991	·0005359057
1867	.....	3485689	6507781363	43·2087954	12·3134979	·0005356186
1868	$2^2.467$	3489424	6518244032	43·2203656	12·3156959	·0005353319
1869	3.7.89	3493161	6528717909	43·2319326	12·3178932	·0005350455
1870	2.5.11.17	3496900	6539203000	43·2434966	12·3200897	·0005347594
1871	.....	3500641	6549699311	43·2550575	12·3222854	·0005344735
1872	$2^4.3^2.13$	3504384	6560206848	43·2666153	12·3244803	·0005341880
1873	.....	3508129	6570725617	43·2781700	12·3266744	·0005339028
1874	2.937	3511876	6581255624	43·2897216	12·3288678	·0005336179
1875	3.5^4	3515625	6591796875	43·3012702	12·3310604	·0005333333
1876	$2^2.7.67$	3519376	6602349376	43·3128157	12·3332522	·0005330490
1877	.....	3523129	6612913133	43·3243580	12·3354432	·0005327651
1878	2.3.313	3526884	6623488152	43·3358973	12·3376334	·0005324814
1879	.....	3530641	6634074439	43·3474336	12·3398229	·0005321980
1880	$2^3.5.47$	3534400	6644672000	43·3589668	12·3420116	·0005319149
1881	$3^2.11.19$	3538161	6655280841	43·3704969	12·3441995	·0005316321
1882	2.941	3541924	6665900968	43·3820239	12·3463866	·0005313496
1883	7.269	3545689	6676532387	43·3935479	12·3485730	·0005310674
1884	$2^2.3.157$	3549456	6687175104	43·4050688	12·3507586	·0005307856
1885	5.13.29	3553225	6697829125	43·4165867	12·3529434	·0005305040
1886	2.23.41	3556996	6708494456	43·4281015	12·3551274	·0005302227
1887	3.17.37	3560769	6719171103	43·4396132	12·3573107	·0005299417
1888	$2^5.59$	3564544	6729859072	43·4511220	12·3594932	·0005296610
1889	.....	3568321	6740558369	43·4626276	12·3616749	·0005293806
1890	$2.3^3.5.7$	3572100	6751269000	43·4741302	12·3638559	·0005291005
1891	31.61	3575881	6761990971	43·4856298	12·3660361	·0005288207
1892	$2^2.11.43$	3579664	6772724288	43·4971263	12·3682155	·0005285412
1893	3.631	3583449	6783468957	43·5086198	12·3703941	·0005282620
1894	2.947	3587236	6794224984	43·5201103	12·3725721	·0005279831
1895	5.379	3591025	6804992375	43·5315977	12·3747492	·0005277045
1896	$2^3.3.79$	3594816	6815771136	43·5430821	12·3769255	·0005274262
1897	7.271	3598609	6826561273	43·5545635	12·3791011	·0005271481
1898	2.13.73	3602404	6837362792	43·5660418	12·3812759	·0005268704
1899	$3^2.211$	3606201	6848175699	43·5775171	12·3834500	·0005265929
1900	$2^2.5^2.19$	3610000	6859000000	43·5889894	12·3856233	·0005263158
1901	.....	3613801	6869835701	43·6004587	12·3877959	·0005260389
1902	2.3.317	3617604	6880682808	43·6119249	12·3899676	·0005257624
1903	11.173	3621409	6891541327	43·6233882	12·3921386	·0005254861
1904	$2^4.7.17$	3625216	6902411264	43·6348485	12·3943089	·0005252101
1905	3.5.127	3629025	6913292625	43·6463057	12·3964784	·0005249344
1906	2.953	3632836	6924185416	43·6577599	12·3986471	·0005246590
1907	.....	3636649	6935089643	43·6692111	12·4008151	·0005243838
1908	$2^2.3^2.53$	3640464	6946005312	43·6806593	12·4029823	·0005241090
1909	23.83	3644281	6956932429	43·6921045	12·4051488	·0005238345
1910	2.5.191	3648100	6967871000	43·7035467	12·4073145	·0005235602
1911	$3.7^2.13$	3651921	6978821031	43·7149860	12·4094794	·0005232862
1912	$2^3.239$	3655744	6989782528	43·7264222	12·4116436	·0005230126
1913	.....	3659569	7000755497	43·7378554	12·4138070	·0005227392
1914	2.3.11.29	3663396	7011739944	43·7492857	12·4159697	·0005224660
1915	5.383	3667225	7022735875	43·7607129	12·4181316	·0005221932
1916	$2^2.479$	3671056	7033743296	43·7721373	12·4202928	·0005219207
1917	3.9.71	3674889	7044762213	43·7835585	12·4224533	·0005216484
1918	2.7.137	3678724	7055792632	43·7949768	12·4246129	·0005213764
1919	19.101	3682561	7066834559	43·8063922	12·4267719	·0005211047

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1920	$2^7.3.5$	3686400	7077888000	43·8178046	12·4289300	·0005208333
1921	17.113	3690241	7088952961	43·8292140	12·4310875	·0005205622
1922	2.31^2	3694084	7100029448	43·8406204	12·4332441	·0005202914
1923	3.641	3697929	7111117467	43·8520239	12·4354001	·0005200208
1924	$2^2.13.37$	3701776	7122217024	43·8634244	12·4375552	·0005197505
1925	$5^2.7.11$	3705625	7133328125	43·8748219	12·4397097	·0005194805
1926	$2.3^2.107$	3709476	7144450776	43·8862165	12·4418634	·0005192108
1927	41.47	3713329	7155584983	43·8976081	12·4440163	·0005189414
1928	$2^3.241$	3717184	7166730752	43·9089968	12·4461685	·0005186722
1929	3.643	3721041	7177888089	43·9203825	12·4483200	·0005184033
1930	2.5.193	3724900	7189057000	43·9317652	12·4504707	·0005181347
1931	.....	3728761	7200237491	43·9431451	12·4526206	·0005178664
1932	$2^2.3.7.23$	3732624	7211429568	43·9545220	12·4547699	·0005175983
1933	.....	3736489	7222633237	43·9658959	12·4569184	·0005173306
1934	2.967	3740356	7233848504	43·9772668	12·4590661	·0005170631
1935	$3^2.5.43$	3744225	7245075375	43·9886349	12·4612131	·0005167959
1936	$2^4.11^2$	3748096	7256313856	44·0000000	12·4633594	·0005165289
1937	13.149	3751969	7267563953	44·0113622	12·4655049	·0005162623
1938	2.3.17.19	3755844	7278825672	44·0227214	12·4676497	·0005159959
1939	7.277	3759721	7290099019	44·0340777	12·4697937	·0005157298
1940	$2^2.5.97$	3763600	7301384000	44·0454311	12·4719370	·0005154639
1941	3.647	3767481	7312680621	44·0567815	12·4740796	·0005151984
1942	2.971	3771364	7323988888	44·0681291	12·4762214	·0005149331
1943	29.67	3775249	7335308807	44·0794737	12·4783625	·0005146680
1944	$2^3.3^5$	3779136	7346640384	44·0908154	12·4805029	·0005144033
1945	5.389	3783025	7357983625	44·1021541	12·4826426	·0005141388
1946	2.7.139	3786916	7369338536	44·1134900	12·4847815	·0005138746
1947	3.11.59	3790809	7380705123	44·1248229	12·4869197	·0005136107
1948	$2^2.487$	3794704	7392083392	44·1361530	12·4890571	·0005133470
1949	.....	3798601	7403473349	44·1474801	12·4911938	·0005130836
1950	$2.3.5^2.13$	3802500	7414875000	44·1588043	12·4933298	·0005128205
1951	.....	3806401	7426288351	44·1701256	12·4954651	·0005125577
1952	$2^5.61$	3810304	7437713408	44·1814441	12·4975995	·0005122951
1953	$3^2.7.31$	3814209	7449150177	44·1927596	12·4997333	·0005120328
1954	2.977	3818116	7460598664	44·2040722	12·5018664	·0005117707
1955	5.17.23	3822025	7472058875	44·2153819	12·5039988	·0005115090
1956	$2^2.3.163$	3825936	7483530816	44·2266888	12·5061304	·0005112474
1957	19.103	3829849	7495014493	44·2379927	12·5082612	·0005109862
1958	2.11.89	3833764	7506509912	44·2492938	12·5103914	·0005107252
1959	3.653	3837681	7518017079	44·2605919	12·5125208	·0005104645
1960	$2^3.5.7^2$	3841600	7529536000	44·2718872	12·5146495	·0005102041
1961	37.53	3845521	7541066681	44·2831797	12·5167775	·0005099439
1962	$2.3^2.109$	3849444	7552609128	44·2944692	12·5189047	·0005096840
1963	13.151	3853369	7564163347	44·3057558	12·5210313	·0005094244
1964	$2^2.491$	3857296	7575729344	44·3170396	12·5231571	·0005091650
1965	3.5.131	3861225	7587307125	44·3283205	12·5252822	·0005089059
1966	2.983	3865156	7598896696	44·3395985	12·5274065	·0005086470
1967	7.281	3869089	7610498063	44·3508737	12·5295302	·0005083884
1968	$2^4.3.41$	3873024	7622111232	44·3621460	12·5316531	·0005081301
1969	11.179	3876961	7633736209	44·3734155	12·5337753	·0005078720
1970	2.5.197	3880900	7645373000	44·3846820	12·5358968	·0005076142
1971	$3^3.73$	3884841	7657021611	44·3959457	12·5380176	·0005073567
1972	$2^2.17.29$	3888784	7668682048	44·4072066	12·5401377	·0005070994
1973	.....	3892729	7680354317	44·4184646	12·5422570	·0005067424
1974	2.3.7.47	3896676	7692038424	44·4297198	12·5443757	·0005065856
1975	$5^2.79$	3900625	7703734375	44·4409720	12·5464936	·0005063291
1976	$2^3.13.19$	3904576	7715442176	44·4522215	12·5486107	·0005060729
1977	3.659	3908529	7727161833	44·4634681	12·5507272	·0005058169
1978	2.23.43	3912484	7738893352	44·4747119	12·5528430	·0005055612
1979	.....	3916441	7750636739	44·4859528	12·5549580	·0005053057

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
1980	$2^2.3^2.5.11$	3920400	7762392000	44·4971909	12·5570723	·0005050505
1981	7.283	3924361	7774159141	44·5084262	12·5591860	·0005047956
1982	2.991	3928324	7785938168	44·5196586	12·5612989	·0005045409
1983	3.661	3932289	7797729087	44·5308881	12·5634111	·0005042864
1984	$2^6.31$	3936256	7809531904	44·5421149	12·5655226	·0005040323
1985	5.397	3940225	7821346625	44·5533388	12·5676334	·0005037783
1986	2.3.331	3944196	7833173256	44·5645599	12·5697435	·0005035247
1987	.....	3948169	7845011803	44·5757781	12·5718529	·0005032713
1988	$2^2.7.71$	3952144	7856862272	44·5869936	12·5739615	·0005030181
1989	$3^2.13.17$	3956121	7868724669	44·5982062	12·5760695	·0005027652
1990	2.5.199	3960100	7880599000	44·6094160	12·5781767	·0005025126
1991	11.181	3964081	7892485271	44·6206230	12·5802832	·0005022602
1992	$2^3.3.83$	3968064	7904383488	44·6318272	12·5823891	·0005020080
1993	.....	3972049	7916293657	44·6430286	12·5844942	·0005017561
1994	2.997	3976036	7928215784	44·6542271	12·5865987	·0005015045
1995	3.5.7.19	3980025	7940149875	44·6654228	12·5887024	·0005012531
1996	$2^2.499$	3984016	7952095936	44·6766158	12·5908054	·0005010020
1997	.....	3988009	7964053973	44·6878059	12·5929078	·0005007511
1998	$2.3^3.37$	3992004	7976023992	44·6989933	12·5950094	·0005005005
1999	.....	3996001	7988005999	44·7101778	12·5971103	·0005002501
2000	$2^4.5^3$	4000000	8000000000	44·7213596	12·5992105	·0005000000
2001	3.23.29	4004001	8012006001	44·7325385	12·6013101	·0004997501
2002	2.7.11.13	4008004	8024024008	44·7437146	12·6034089	·0004995005
2003	.....	4012009	8036054027	44·7548880	12·6055070	·0004992511
2004	$2^2.3.167$	4016016	8048096064	44·7660586	12·6076044	·0004990020
2005	5.401	4020025	8060150125	44·7772264	12·6097011	·0004987531
2006	2.17.59	4024036	8072216216	44·7883913	12·6117971	·0004985045
2007	$3^2.223$	4028049	8084294343	44·7995535	12·6138924	·0004982561
2008	$2^3.251$	4032064	8096384512	44·8107130	12·6159870	·0004980080
2009	$7^2.41$	4036081	8108486729	44·8218697	12·6180810	·0004977601
2010	2.3.5.67	4040100	8120601000	44·8330235	12·6201743	·0004975124
2011	.....	4044121	8132727331	44·8441746	12·6222669	·0004972650
2012	$2^2.503$	4048144	8144865728	44·8553230	12·6243587	·0004970179
2013	3.11.61	4052169	8157016197	44·8664685	12·6264499	·0004967710
2014	2.19.53	4056196	8169178744	44·8776113	12·6285404	·0004965243
2015	5.13.31	4060225	8181353375	44·8887514	12·6306301	·0004962779
2016	$2^4.3^2.7$	4064256	8193540096	44·8998886	12·6327192	·0004960317
2017	.....	4068289	8205738913	44·9110231	12·6348076	·0004957858
2018	2.1009	4072324	8217949832	44·9221549	12·6368953	·0004955401
2019	3.673	4076361	8230172859	44·9332839	12·6389823	·0004952947
2020	$2^3.5.101$	4080400	8242408000	44·9444101	12·6410687	·0004950495
2021	43.47	4084441	8254655261	44·9555336	12·6431543	·0004948046
2022	2.3.337	4088484	8266914648	44·9666543	12·6452393	·0004945598
2023	7.17^2	4092529	8279186167	44·9777723	12·6473235	·0004943154
2024	$2^3.11.23$	4096576	8291469824	44·9888875	12·6494071	·0004940711
2025	$3^4.5^2$	4100625	8303765625	45·0000000	12·6514900	·0004938272
2026	2.1013	4104676	8316073576	45·0111097	12·6535722	·0004935834
2027	.....	4108729	8328393683	45·0222167	12·6556538	·0004933399
2028	$2^2.3.13^2$	4112784	8340725952	45·0333210	12·6577346	·0004930966
2029	.....	4116841	8353070389	45·0444225	12·6598148	·0004928536
2030	2.5.7.29	4120900	8365427000	45·0555213	12·6618943	·0004926108
2031	3.677	4124961	8377795791	45·0666173	12·6639731	·0004923683
2032	$2^4.127$	4129024	8390176768	45·0777107	12·6660512	·0004921260
2033	19.107	4133089	8402569937	45·0888013	12·6681286	·0004918839
2034	$2.3^2.113$	4137156	8414975304	45·0998891	12·6702053	·0004916421
2035	5.11.37	4141225	8427392875	45·1109743	12·6722814	·0004914005
2036	$2^2.509$	4145296	8439822656	45·1220567	12·6743567	·0004911591
2037	3.7.97	4149369	8452264653	45·1331364	12·6764314	·0004909180
2038	2.1019	4153444	8464718872	45·1442134	12·6785054	·0004906771
2039	.....	4157521	8477185319	45·1552876	12·6805788	·0004904365

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2040	$2^3.3.5.17$	4161600	8489664000	45·1663592	12·6826514	·0004901961
2041	13.157	4165681	8502154921	45·1774280	12·6847234	·0004899559
2042	2.1021	4169764	8514658088	45·1884941	12·6867947	·0004897160
2043	$3^2.227$	4173849	8527173507	45·1995575	12·6888654	·0004894762
2044	$2^2.7.73$	4177936	8539701184	45·2106182	12·6909354	·0004892368
2045	5.409	4182025	8552241125	45·2216762	12·6930047	·0004889976
2046	2.3.11.31	4186116	8564793336	45·2327315	12·6950733	·0004887586
2047	23.89	4190209	8577357823	45·2437841	12·6971412	·0004885198
2048	2^{11}	4194304	8589934592	45·2548340	12·6992084	·0004882813
2049	3.683	4198401	8602523649	45·2658812	12·7012750	·0004880429
2050	$2.5^2.41$	4202500	8615123000	45·2769257	12·7033409	·0004878049
2051	7.293	4206601	8627738651	45·2879675	12·7054061	·0004875670
2052	$2^2.3^3.19$	4210704	8640364608	45·2990066	12·7074707	·0004873294
2053	.....	4214809	8653002877	45·3100430	12·7095346	·0004870921
2054	2.13.79	4218916	8665653464	45·3210768	12·7115978	·0004868549
2055	3.5.137	4223025	8678316375	45·3321078	12·7136603	·0004866180
2056	$2^3.257$	4227136	8690991616	45·3431362	12·7157222	·0004863813
2057	$11^2.17$	4231249	8703679193	45·3541619	12·7177835	·0004861449
2058	$2.3.7^3$	4235364	8716379112	45·3651849	12·7198441	·0004859086
2059	29.71	4239481	8729091379	45·3762052	12·7219040	·0004856727
2060	$2^2.5.103$	4243600	8741816000	45·3872229	12·7239632	·0004854369
2061	$3^2.229$	4247721	8754552981	45·3982378	12·7260218	·0004852014
2062	2.1031	4251844	8767302328	45·4092501	12·7280797	·0004849661
2063	.....	4255969	8780064047	45·4202598	12·7301370	·0004847310
2064	$2^4.3.43$	4260096	8792838144	45·4312668	12·7321935	·0004844961
2065	5.7.59	4264225	8805624625	45·4422711	12·7342494	·0004842615
2066	2.1033	4268356	8818423496	45·4532727	12·7363046	·0004840271
2067	3.13.53	4272489	8831234763	45·4642717	12·7383592	·0004837929
2068	$2^2.11.[illegible]$	4276624	8844058432	45·4752680	12·7404131	·0004835590
2069	.....	4280761	8856894509	45·4862616	12·7424664	·0004833253
2070	$2.3^2.5.23$	4284900	8869743000	45·4972526	12·7445189	·0004830918
2071	19.109	4289041	8882603911	45·5082410	12·7465709	·0004828585
2072	$2^3.7.37$	4293184	8895477248	45·5192267	12·7486222	·0004826255
2073	3.691	4297329	8908363017	45·5302097	12·7506728	·0004823927
2074	2.17.61	4301476	8921261224	45·5411901	12·7527227	·0004821601
2075	$5^2.83$	4305625	8934171875	45·5521679	12·7547721	·0004819277
2076	$2^2.3.173$	4309776	8947094976	45·5631430	12·7568207	·0004816956
2077	31.67	4313929	8960030533	45·5741155	12·7588687	·0004814636
2078	2.1039	4318084	8972978552	45·5850853	12·7609160	·0004812320
2079	$3^3.7.11$	4322241	8985939039	45·5960525	12·7629627	·0004810005
2080	$2^5.5.13$	4326400	8998912000	45·6070170	12·7650087	·0004807692
2081	.....	4330561	9011897441	45·6179789	12·7670540	·0004805382
2082	2.3.347	4334724	9024895368	45·6289382	12·7690987	·0004803074
2083	.....	4338889	9037905787	45·6398948	12·7711427	·0004800768
2084	$2^2.521$	4343056	9050928704	45·6508488	12·7731861	·0004798464
2085	3.5.139	4347225	9063964125	45·6618002	12·7752288	·0004796163
2086	2.7.149	4351396	9077012056	45·6727490	12·7772709	·0004793864
2087	.....	4355569	9090072503	45·6836951	12·7793123	·0004791567
2088	$2^3.3^2.29$	4359744	9103145472	45·6946386	12·7813531	·0004789272
2089	.....	4363921	9116230969	45·7055795	12·7833932	·0004786979
2090	2.5.11.19	4368100	9129329000	45·7165178	12·7854326	·0004784689
2091	3.17.41	4372281	9142439571	45·7274534	12·7874714	·0004782401
2092	$2^2.523$	4376464	9155562688	45·7383865	12·7895096	·0004780115
2093	7.13.23	4380649	9168698357	45·7493169	12·7915471	·0004777831
2094	2.3.349	4384836	9181846584	45·7602447	12·7935840	·0004775549
2095	5.419	4389025	9195007375	45·7711699	12·7956202	·0004773270
2096	$2^4.131$	4393216	9208180736	45·7820926	12·7976558	·0004770992
2097	$3^2.233$	4397409	9221366673	45·7930126	12·7996907	·0004768717
2098	2.1049	4401604	9234565192	45·8039299	12·8017250	·0004766444
2099	.....	4405801	9247776299	45·8148447	12·8037586	·0004764172

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2100	$2^2.3.5^2.7$	4410000	9261000000	45·8257569	12·8057916	·0004761905
2101	11.191	4414201	9274236301	45·8366665	12·8078239	·0004759638
2102	2.1051	4418404	9287485208	45·8475735	12·8098556	·0004757374
2103	3.701	4422609	9300746727	45·8584779	12·8118866	·0004755112
2104	$2^3.263$	4426816	9314020864	45·8693798	12·8139170	·0004752852
2105	5.421	4431025	9327307625	45·8802790	12·8159468	·0004750594
2106	$2.3^4.13$	4435236	9340607016	45·8911756	12·8179759	·0004748338
2107	$7^2.43$	4439449	9353919045	45·9020696	12·8200044	·0004746084
2108	$2^2.17.31$	4443664	9367243712	45·9129611	12·8220323	·0004743833
2109	3.19.37	4447881	9380581029	45·9238500	12·8240595	·0004741584
2110	2.5.211	4452100	9393931000	45·9347363	12·8260861	·0004739336
2111	.....	4456321	9407293631	45·9456200	12·8281120	·0004737091
2112	$2^6.3.11$	4460544	9420668928	45·9565012	12·8301373	·0004734848
2113	.....	4464769	9434056897	45·9673798	12·8321620	·0004732608
2114	2.7.151	4468996	9447457544	45·9782557	12·8341860	·0004730369
2115	$3^2.5.47$	4473225	9460870875	45·9891291	12·8362094	·0004728132
2116	$2^2.23^2$	4477456	9474296896	46·0000000	12·8382321	·0004725898
2117	29.73	4481689	9487735613	46·0108683	12·8402542	·0004723666
2118	2.3.353	4485924	9501187032	46·0217340	12·8422756	·0004721435
2119	13.163	4490161	9514651159	46·0325971	12·8442964	·0004719207
2120	$2^3.5.53$	4494400	9528128000	46·0434577	12·8463166	·0004716981
2121	3.7.101	4498641	9541617561	46·0543158	12·8483361	·0004714757
2122	2.1061	4502884	9555119848	46·0651712	12·8503551	·0004712535
2123	11.193	4507129	9568634867	46·0760241	12·8523733	·0004710316
2124	$2^2.3^2.59$	4511376	9582162624	46·0868745	12·8543910	·0004708098
2125	$5^3.17$	4515625	9595703125	46·0977223	12·8564080	·0004705882
2126	2.1063	4519876	9609256376	46·1085675	12·8584243	·0004703669
2127	3.709	4524129	9622822383	46·1194102	12·8604401	·0004701457
2128	$2^4.7.19$	4528384	9636401152	46·1302504	12·8624552	·0004699248
2129	.....	4532641	9649992689	46·1410880	12·8644697	·0004697041
2130	2.3.5.71	4536900	9663597000	46·1519230	12·8664835	·0004694836
2131	.....	4541161	9677214091	46·1627555	12·8684967	·0004692633
2132	$2^2.13.41$	4545424	9690845968	46·1735855	12·8705093	·0004690432
2133	$3^3.79$	4549689	9704486637	46·1844130	12·8725213	·0004688233
2134	2.11.97	4553956	9718142104	46·1952378	12·8745326	·0004686036
2135	5.7.61	4558225	9731810375	46·2060602	12·8765433	·0004683841
2136	$2^3.3.89$	4562496	9745491456	46·2168800	12·8785534	·0004681648
2137	.....	4566769	9759185353	46·2276973	12·8805628	·0004679457
2138	2.1069	4571044	9772892072	46·2385121	12·8825717	·0004677268
2139	3.23.31	4575321	9786611619	46·2493243	12·8845799	·0004675082
2140	$2^2.15.107$	4579600	9800344000	46·2601340	12·8865874	·0004672897
2141	.....	4583881	9814089221	46·2709412	12·8885944	·0004670715
2142	$2.3^2.7.17$	4588164	9827847288	46·2817459	12·8906007	·0004668534
2143	.....	4592449	9841618207	46·2925480	12·8926064	·0004666356
2144	$2^5.67$	4596736	9855401984	46·3033476	12·8946115	·0004664179
2145	3.5.11.13	4601025	9869198625	46·3141447	12·8966159	·0004662005
2146	2.29.37	4605316	9883008136	46·3249393	12·8986197	·0004659832
2147	19.113	4609609	9896830523	46·3357314	12·9006229	·0004657662
2148	$2^2.3.179$	4613904	9910665792	46·3465209	12·9026255	·0004655493
2149	7.307	4618201	9924513949	46·3573079	12·9046275	·0004653327
2150	$2.5^2.43$	4622500	9938375000	46·3680924	12·9066288	·0004651163
2151	$3^2.239$	4626801	9952248951	46·3788745	12·9086295	·0004649000
2152	$2^3.269$	4631104	9966135808	46·3896540	12·9106296	·0004646840
2153	.....	4635409	9980035577	46·4004310	12·9126291	·0004644682
2154	2.3.359	4639716	9993948264	46·4112055	12·9146279	·0004642526
2155	5.431	4644025	10007873875	46·4219775	12·9166262	·0004640371
2156	$2^2.7^2.11$	4648336	10021812416	46·4327471	12·9186238	·0004638219
2157	3.719	4652649	10035763893	46·4435141	12·9206208	·0004636069
2158	2.13.83	4656964	10049728312	46·4542786	12·9226172	·0004633920
2159	17.127	4661281	10063705679	46·4650406	12·9246129	·0004631774

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2160	$2^4.3^3.5$	4665600	10077696000	46·4758002	12·9266081	·0004629630
2161	.....	4669921	10091699281	46·4865572	12·9286027	·0004627487
2162	2.23.47	4674244	10105715528	46·4973118	12·9305966	·0004625347
2163	3.7.103	4678569	10119744747	46·5080638	12·9325899	·0004623209
2164	$2^2.541$	4682896	10133786944	46·5188134	12·9345827	·0004621072
2165	5.433	4687225	10147842125	46·5295605	12·9365747	·0004618938
2166	$2.3.19^2$	4691556	10161910296	46·5403051	12·9385662	·0004616805
2167	11.197	4695889	10175991463	46·5510472	12·9405570	·0004614675
2168	$2^3.271$	4700224	10190085632	46·5617869	12·9425472	·0004612546
2169	$3^2.241$	4704561	10204192809	46·5725241	12·9445369	·0004610420
2170	2.5.7.31	4708900	10218313000	46·5832588	12·9465259	·0004608295
2171	13.167	4713241	10232446211	46·5939910	12·9485143	·0004606172
2172	$2^2.3.181$	4717584	10246592448	46·6047208	12·9505021	·0004604052
2173	41.53	4721929	10260751717	46·6154481	12·9524893	·0004601933
2174	2.1087	4726276	10274924024	46·6261729	12·9544759	·0004599816
2175	$3.5^2.29$	4730625	10289109375	46·6368953	12·9564618	·0004597701
2176	27.17	4734976	10303307776	46·6476152	12·9584472	·0004595588
2177	7.311	4739329	10317519233	46·6583326	12·9604319	·0004593477
2178	$2.3^2.11^2$	4743684	10331743752	46·6690476	12·9624161	·0004591368
2179	.....	4748041	10345981339	46·6797601	12·9643996	·0004589261
2180	$2^2.5.109$	4752400	10360232000	46·6904701	12·9663826	·0004587156
2181	3.727	4756761	10374495741	46·7011777	12·9683649	·0004585053
2182	2.1091	4761124	10388772568	46·7118829	12·9703466	·0004582951
2183	37.59	4765489	10403062487	46·7225855	12·9723277	·0004580852
2184	$2^3.3.7.13$	4769856	10417365504	46·7332858	12·9743082	·0004578755
2185	5.19.23	4774225	10431681625	46·7439836	12·9762881	·0004576659
2186	2.1093	4778596	10446010856	46·7546789	12·9782674	·0004574565
2187	3^7	4782969	10460353203	46·7653718	12·9802461	·0004572474
2188	$2^2.547$	4787344	10474708672	46·7760623	12·9822242	·0004570384
2189	11.199	4791721	10489077269	46·7867503	12·9842017	·0004568296
2190	2.3.5.73	4796100	10503459000	46·7974358	12·9861786	·0004566210
2191	7.313	4800481	10517853871	46·8081189	12·9881549	·0004564126
2192	$2^4.137$	4804864	10532261888	46·8187996	12·9901306	·0004562044
2193	3.17.43	4809249	10546683057	46·8294779	12·9921057	·0004559964
2194	2.1097	4813636	10561117384	46·8401537	12·9940802	·0004557885
2195	5.439	4818025	10575564875	46·8508271	12·9960540	·0004555809
2196	$2^2.3^2.61$	4822416	10590025536	46·8614981	12·9980273	·0004553734
2197	13^3	4826809	10604499373	46·8721666	13·0000000	·0004551661
2198	2.7.157	4831204	10618986392	46·8828327	13·0019721	·0004549591
2199	3.733	4835601	10633486599	46·8934963	13·0039436	·0004547522
2200	$2^3.5^2.11$	4840000	10648000000	46·9041576	13·0059145	·0004545455
2201	31.71	4844401	10662526601	46·9148164	13·0078848	·0004543389
2202	2.3.367	4848804	10677066408	46·9254728	13·0098544	·0004541326
2203	.....	4853209	10691619427	46·9361268	13·0118235	·0004539265
2204	$2^2.19.29$	4857616	10706185664	46·9467784	13·0137920	·0004537205
2205	$3^2.5.7^2$	4862025	10720765125	46·9574275	13·0157599	·0004535147
2206	2.1103	4866436	10735357816	46·9680743	13·0177272	·0004533092
2207	.....	4870849	10749963743	46·9787186	13·0196939	·0004531038
2208	$2^5.3.23$	4875264	10764582912	46·9893605	13·0216600	·0004528986
2209	47^2	4879681	10779215329	47·0000000	13·0236256	·0004526935
2210	2.5.13.17	4884100	10793861000	47·0106371	13·0255905	·0004524887
2211	3.11.67	4888521	10808519931	47·0212718	13·0275549	·0004522840
2212	$2^2.7.79$	4892944	10823192128	47·0319041	13·0295186	·0004520796
2213	.....	4897369	10837877597	47·0425339	13·0314818	·0004518753
2214	$2.3^3.41$	4901796	10852576344	47·0531614	13·0334444	·0004516712
2215	5.443	4906225	10867288375	47·0637865	13·0354064	·0004514673
2216	$2^3.277$	4910656	10882013696	47·0744092	13·0373678	·0004512635
2217	3.739	4915089	10896752313	47·0850295	13·0393286	·0004510600
2218	2.1109	4919524	10911504232	47·0956474	13·0412889	·0004508566
2219	7.317	4923961	10926269459	47·1062629	13·0432485	·0004506534

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2220	$2^2.3.5.37$	4928400	10941048000	47·1168760	13·0452075	·0004504505
2221	.....	4932841	10955839861	47·1274867	13·0471659	·0004502476
2222	2.11.101	4937284	10970645048	47·1380950	13·0491238	·0004500450
2223	$3^2.13.19$	4941729	10985463567	47·1487009	13·0510811	·0004498426
2224	$2^4.139$	4946176	11000295424	47·1593045	13·0530373	·0004496403
2225	$5^2.89$	4950625	11015140625	47·1699056	13·0549939	·0004494382
2226	2.3.7.53	4955076	11029999176	47·1805044	13·0569494	·0004492363
2227	17.131	4959529	11044871083	47·1911008	13·0589043	·0004490346
2228	$2^2.557$	4963984	11059756352	47·2016949	13·0608587	·0004488330
2229	3.743	4968441	11074654989	47·2122865	13·0628124	·0004486317
2230	2.5.223	4972900	11089567000	47·2228758	13·0647656	·0004484305
2231	23.97	4977361	11104492391	47·2334627	13·0667181	·0004482295
2232	$2^3.3^2.31$	4981824	11119431168	47·2440472	13·0686701	·0004480287
2233	7.11.29	4986289	11134383337	47·2546294	13·0706216	·0004478280
2234	2.1117	4990756	11149348904	47·2652092	13·0725724	·0004476276
2235	3.5.149	4995225	11164327875	47·2757866	13·0745226	·0004474273
2236	$2^2.13.43$	4999696	11179320256	47·2863617	13·0764723	·0004472272
2237	.....	5004169	11194326053	47·2969343	13·0784214	·0004470273
2238	2.3.373	5008644	11209345272	47·3075047	13·0803699	·0004468275
2239	.....	5013121	11224377919	47·3180726	13·0823178	·0004466280
2240	$2^6.5.7$	5017600	11239424000	47·3286383	13·0842652	·0004464286
2241	$3^2.83$	5022081	11254483521	47·3392015	13·0862120	·0004462294
2242	2.19.59	5026564	11269556488	47·3497624	13·0881582	·0004460303
2243	.....	5031049	11284642907	47·3603209	13·0901038	·0004458315
2244	$2^2.3.11.17$	5035536	11299742784	47·3708771	13·0920489	·0004456328
2245	5.449	5040025	11314856125	47·3814309	13·0939933	·0004454343
2246	2.1123	5044516	11329982936	47·3919824	13·0959372	·0004452360
2247	3.7.107	5049009	11345123223	47·4025315	13·0978805	·0004450378
2248	$2^3.281$	5053504	11360276992	47·4130784	13·0998232	·0004448399
2249	13.173	5058001	11375444249	47·4236228	13·1017653	·0004446421
2250	$2.3^2.5^3$	5062500	11390625000	47·4341649	13·1037069	·0004444444
2251	.....	5067001	11405819251	47·4447046	13·1056479	·0004442470
2252	$2^2.563$	5071504	11421027008	47·4552421	13·1075883	·0004440497
2253	3.751	5076009	11436248277	47·4657771	13·1095282	·0004438526
2254	$2.7^2.23$	5080516	11451483064	47·4763099	13·1114675	·0004436557
2255	5.11.41	5085025	11466731375	47·4868403	13·1134062	·0004434590
2256	$2^4.3.47$	5089536	11481993216	47·4973683	13·1153444	·0004432624
2257	37.61	5094049	11497268593	47·5078941	13·1172819	·0004430660
2258	2 1129	5098564	11512557512	47·5184175	13·1192189	·0004428698
2259	$3^2.251$	5103081	11527859979	47·5289385	13·1211553	·0004426737
2260	$2^2.5.113$	5107600	11543176000	47·5394573	13·1230912	·0004424779
2261	7.17.19	5112121	11558505581	47·5499737	13·1250264	·0004422822
2262	2.3.13.29	5116644	11573848728	47·5604878	13·1269611	·0004420867
2263	31.73	5121169	11589205447	47·5709995	13·1288953	·0004418913
2264	$2^3.283$	5125696	11604575744	47·5815090	13·1308288	·0004416961
2265	3.5.151	5130225	11619959625	47·5920161	13·1327618	·0004415011
2266	2.11.103	5134756	11635357096	47·6025209	13·1346943	·0004413063
2267	.....	5139289	11650768163	47·6130234	13·1366261	·0004411116
2268	$2^2.3^4.7$	5143824	11666192832	47·6235236	13·1385574	·0004409171
2269	.....	5148361	11681631109	47·6340214	13·1404881	·0004407228
2270	2.5.227	5152900	11697083000	47·6445170	13·1424183	·0004405286
2271	3.757	5157441	11712548511	47·6550102	13·1443479	·0004403347
2272	$2^5.71$	5161984	11728027648	47·6655012	13·1462769	·0004401408
2273	.....	5166529	11743520417	47·6759898	13·1482053	·0004399472
2274	2.3.379	5171076	11759026824	47·6864761	13·1501332	·0004397537
2275	$5^2.7.13$	5175625	11774546875	47·6969601	13·1520605	·0004395604
2276	$2^2.569$	5180176	11790080576	47·7074418	13·1539872	·0004393673
2277	$3^2.11.23$	5184729	11805627933	47·7179212	13·1559134	·0004391744
2278	2.17.67	5189284	11821188952	47·7283982	13·1578390	·0004389816
2279	43.53	5193841	11836763639	47·7388730	13·1597641	·0004387889

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2280	$2^3.3.5.19$	5198400	11852352000	47·7493455	13·1616886	·0004385965
2281	.....	5202961	11867954041	47·7598157	13·1636126	·0004384042
2282	2.7.163	5207524	11883569768	47·7702836	13·1655359	·0004382121
2283	3.761	5212089	11899199187	47·7807492	13·1674588	·0004380201
2284	$2^2.571$	5216656	11914842304	47·7912126	13·1693810	·0004378284
2285	5.457	5221225	11930499125	47·8016736	13·1713028	·0004376368
2286	$2.3^2.127$	5225796	11946169656	47·8121323	13·1732239	·0004374453
2287	.....	5230369	11961853903	47·8225888	13·1751444	·0004372540
2288	$2^4.11.13$	5234944	11977551872	47·8330430	13·1770645	·0004370629
2289	3.7.109	5239521	11993263569	47·8434949	13·1789840	·0004368720
2290	2.5.229	5244100	12008989000	47·8539445	13·1809029	·0004366812
2291	29.79	5248681	12024728171	47·8643918	13·1828212	·0004364906
2292	$2^2.3.191$	5253264	12040481088	47·8748368	13·1847390	·0004363002
2293	.....	5257849	12056247757	47·8852796	13·1866562	·0004361099
2294	2.31.37	5262436	12072028184	47·8957201	13·1885729	·0004359198
2295	$3^2.5.17$	5267025	12087822375	47·9061583	13·1904890	·0004357298
2296	$2^3.7.41$	5271616	12103630336	47·9165942	13·1924046	·0004355401
2297	.....	5276209	12119452073	47·9270279	13·1943195	·0004353505
2298	2.3.383	5280804	12135287592	47·9374592	13·1962340	·0004351610
2299	$11^2.19$	5285401	12151136899	47·9478883	13·1981479	·0004349717
2300	$2^2.5^2.23$	5290000	12167000000	47·9583152	13·2000612	·0004347826
2301	3.13.59	5294601	12182876901	47·9687398	13·2019740	·0004345937
2302	2.1151	5299204	12198767608	47·9791621	13·2038862	·0004344049
2303	$7^2.47$	5303809	12214672127	47·9895822	13·2057979	·0004342162
2304	$2^8.3^2$	5308416	12230590464	48·0000000	13·2077090	·0004340278
2305	5.461	5313025	12246522625	48·0104155	13·2096195	·0004338395
2306	2.1153	5317636	12262468616	48·0208288	13·2115296	·0004336513
2307	3.769	5322249	12278428443	48·0312398	13·2134390	·0004334634
2308	$2^2.577$	5326864	12294402112	48·0416486	13·2153479	·0004332756
2309	.....	5331481	12310389629	48·0520551	13·2172563	·0004330879
2310	2.3.5.7.11	5336100	12326391000	48·0624593	13·2191641	·0004329004
2311	.....	5340721	12342406231	48·0728613	13·2210714	·0004327131
2312	$2^3.17^2$	5345344	12358435328	48·0832611	13·2229780	·0004325260
2313	$3^2.257$	5349969	12374478297	48·0936586	13·2248842	·0004323390
2314	2.13.89	5354596	12390535144	48·1040539	13·2267898	·0004321521
2315	5.463	5359225	12406605875	48·1144469	13·2286948	·0004319654
2316	$2^2.3.193$	5363856	12422690496	48·1248377	13·2305993	·0004317789
2317	7.331	5368489	12438789013	48·1352262	13·2325053	·0004315926
2318	2.19.61	5373124	12454901432	48·1456124	13·2344067	·0004314064
2319	3.773	5377761	12471027759	48·1559964	13·2363095	·0004312204
2320	$2^4.5.29$	5382400	12487168000	48·1663782	13·2382118	·0004310345
2321	11.211	5387041	12503322161	48·1767578	13·2401137	·0004308488
2322	$2.3^2.43$	5391684	12519490248	48·1871352	13·2420149	·0004306632
2323	23.101	5396329	12535672267	48·1975103	13·2439156	·0004304778
2324	$2^2.7.83$	5400976	12551868224	48·2078832	13·2458157	·0004302926
2325	$3.5^2.31$	5405625	12568078125	48·2182538	13·2477153	·0004301075
2326	2.1163	5410276	12584301976	48·2286222	13·2496143	·0004299226
2327	13.179	5414929	12600539783	48·2389883	13·2515128	·0004297379
2328	$2^3.3.97$	5419584	12616791552	48·2493523	13·2534108	·0004295533
2329	17.137	5424241	12633057289	48·2597140	13·2553082	·0004293688
2330	2.5.233	5428900	12649337000	48·2700735	13·2572050	·0004291845
2331	$3^2.7.37$	5433561	12665630691	48·2804308	13·2591014	·0004290004
2332	$2^2.11.53$	5438224	12681938368	48·2907859	13·2609971	·0004288165
2333	.....	5442889	12698260037	48·3011387	13·2628924	·0004286327
2334	2.3.389	5447556	12714595704	48·3114893	13·2647871	·0004284490
2335	5.467	5452225	12730945375	48·3218377	13·2666812	·0004282655
2336	$2^5.73$	5456896	12747309056	48·3321839	13·2685749	·0004280822
2337	3.19.41	5461569	12763686753	48·3425278	13·2704679	·0004278990
2338	2.7.167	5466244	12780078472	48·3528696	13·2723605	·0004277160
2339	.....	5470921	12796484219	48·3632091	13·2742525	·0004275331

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2340	$2^2.3^2.5.13$	5475600	12812904000	48·3735465	13·2761439	·0004273504
2341	.....	5480281	12829337821	48·3838816	13·2780348	·0004271679
2342	2.1171	5484964	12845785688	48·3942145	13·2799252	·0004269855
2343	3.11.71	5489649	12862247607	48·4045452	13·2818150	·0004268032
2344	$2^3.293$	5494336	12878723584	48·4148737	13·2837043	·0004266212
2345	5.7.67	5499025	12895213625	48·4252000	13·2855931	·0004264392
2346	2.3.17.23	5503716	12911717736	48·4355241	13·2874814	·0004262575
2347	.....	5508409	12928235923	48·4458460	13·2893690	·0004260758
2348	$2^2.587$	5513104	12944768192	48·4561658	13·2912562	·0004258944
2349	$3^4.29$	5517801	12961314549	48·4664832	13·2931429	·0004257131
2350	$2.5^2.47$	5522500	12977875000	48·4767985	13·2950289	·0004255319
2351	.....	5527201	12994449551	48·4871117	13·2969145	·0004253509
2352	$2^4.3.7^2$	5531904	13011038208	48·4974226	13·2987995	·0004251701
2353	13.181	5536609	13027640977	48·5077313	13·3006840	·0004249894
2354	2.11.107	5541316	13044257864	48·5180379	13·3025679	·0004248088
2355	3.5.157	5546025	13060888875	48·5283422	13·3044513	·0004246285
2356	$2^2.19.31$	5550736	13077534016	48·5386444	13·3063342	·0004244482
2357	.....	5555449	13094193293	48·5489444	13·3082166	·0004242681
2358	$2.3^2.131$	5560164	13110866712	48·5592422	13·3100984	·0004240882
2359	7.337	5564881	13127554279	48·5695378	13·3119797	·0004239084
2360	$2^3.5.59$	5569600	13144256000	48·5798312	13·3138604	·0004237288
2361	3.787	5574321	13160971881	48·5901224	13·3157407	·0004235493
2362	2.1181	5579044	13177701928	48·6004115	13·3176204	·0004233700
2363	17.139	5583769	13194446147	48·6106984	13·3194995	·0004231909
2364	$2^2.3.197$	5588496	13211204544	48·6209831	13·3213781	·0004230118
2365	5.11.43	5593225	13227977125	48·6312656	13·3232562	·0004228330
2366	$2.7.13^2$	5597956	13244763896	48·6415460	13·3251338	·0004226543
2367	$3^2.263$	5602689	13261564863	48·6518242	13·3270109	·0004224757
2368	$2^6.37$	5607424	13278380032	48·6621002	13·3288874	·0004222973
2369	23.103	5612161	13295209409	48·6723741	13·3307634	·0004221190
2370	2.3.5.79	5616900	13312053000	48·6826458	13·3326388	·0004219409
2371	.....	5621641	13328910811	48·6929153	13·3345138	·0004217630
2372	$2^2.593$	5626384	13345782848	48·7031826	13·3363882	·0004215852
2373	3.7.113	5631129	13362669117	48·7134478	13·3382621	·0004214075
2374	2.1187	5635876	13379569624	48·7237108	13·3401355	·0004212300
2375	$5^3.19$	5640625	13396484375	48·7339717	13·3420083	·0004210526
2376	$2^3.3^3.11$	5645376	13413413376	48·7442304	13·3438806	·0004208754
2377	.....	5650129	13430356633	48·7544869	13·3457523	·0004206984
2378	2.29.41	5654884	13447314152	48·7647413	13·3476235	·0004205214
2379	3.13.61	5659641	13464285939	48·7749936	13·3494943	·0004203447
2380	$2^2.5.7.17$	5664400	13481272000	48·7852437	13·3513644	·0004201681
2381	.....	5669161	13498272341	48·7954916	13·3532341	·0004199916
2382	2.3.397	5673924	13515286968	48·8057373	13·3551033	·0004198153
2383	.....	5678689	13532315887	48·8159810	13·3569719	·0004196391
2384	$2^4.149$	5683456	13549359104	48·8262225	13·3588400	·0004194631
2385	$3^2.5.53$	5688225	13566416625	48·8364618	13·3607076	·0004192872
2386	2.1193	5692996	13583488456	48·8466989	13·3625746	·0004191115
2387	7.11.31	5697769	13600574603	48·8569340	13·3644412	·0004189359
2388	$2^2.3.199$	5702544	13617675072	48·8671669	13·3663072	·0004187605
2389	.....	5707321	13634789869	48·8773976	13·3681727	·0004185852
2390	2.5.239	5712100	13651919000	48·8876262	13·3700377	·0004184100
2391	3.797	5716881	13669062471	48·8978527	13·3719021	·0004182350
2392	$2^3.13.23$	5721664	13686220288	48·9080770	13·3737661	·0004180602
2393	.....	5726449	13703392457	48·9182992	13·3756296	·0004178855
2394	$2.3^2.7.19$	5731236	13720578984	48·9285193	13·3774925	·0004177109
2395	5.479	5736025	13737779875	48·9387372	13·3793549	·0004175565
2396	$2^2.599$	5740816	13754995136	48·9489530	13·3812167	·0004173623
2397	3.17.47	5745609	13772224773	48·9591667	13·3830781	·0004171882
2398	2.11.109	5750404	13789468792	48·9693782	13·3849389	·0004170142
2399	.....	5755201	13806727199	48·9795876	13·3867993	·0004168403

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2400	$2^5.3.5^2$	5760000	13824000000	48·9897949	13·3886590	·0004166667
2401	7^4	5764801	13841287201	49·0000000	13·3905183	·0004164931
2402	2.1201	5769604	13858588808	49·0102050	13·3923770	·0004163197
2403	$3^3.89$	5774409	13875904827	49·0204039	13·3942352	·0004161465
2404	$2^2.601$	5779216	13893235264	49·0306027	13·3960929	·0004159734
2405	5.13.37	5784025	13910580125	49·0407993	13·3979501	·0004158004
2406	2.3.401	5788836	13927939416	49·0509939	13·3998068	·0004156276
2407	29.83	5793649	13945313143	49·0611863	13·4016630	·0004154549
2408	$2^3.7.43$	5798464	13962701312	49·0713766	13·4035186	·0004152824
2409	3.11.73	5803281	13980103929	49·0815648	13·4053738	·0004151100
2410	2.5.241	5808100	13997521000	49·0917508	13·4072285	·0004149378
2411	.....	5812921	14014952531	49·1019348	13·4090826	·0004147657
2412	$2^2.3^2.67$	5817744	14032398528	49·1121166	13·4109363	·0004145937
2413	19.127	5822569	14049858997	49·1222964	13·4127894	·0004144219
2414	2.17.71	5827396	14067333944	49·1324739	13·4146420	·0004142502
2415	3.5.7.23	5832225	14084823375	49·1426495	13·4164941	·0004140787
2416	$2^4.151$	5837056	14102327296	49·1528229	13·4183457	·0004139073
2417	.....	5841889	14119845713	49·1629942	13·4201968	·0004137360
2418	2.3.13.31	5846724	14137378632	49·1731634	13·4220473	·0004135649
2419	41.59	5851561	14154926059	49·1833305	13·4238974	·0004133940
2420	$2^2.5.11^2$	5856400	14172488000	49·1934955	13·4257469	·0004132231
2421	$3^2.269$	5861241	14190064461	49·2036584	13·4275959	·0004130525
2422	2.7.173	5866084	14207655448	49·2138192	13·4294444	·0004128819
2423	.....	5870929	14225260967	49·2239779	13·4312924	·0004127115
2424	$2^3.3.101$	5875776	14242881024	49·2341345	13·4331399	·0004125413
2425	$5^2.97$	5880625	14260515625	49·2442890	13·4349869	·0004123711
2426	2.1213	5885476	14278164776	49·2544414	13·4368334	·0004122012
2427	3.809	5890329	14295828483	49·2645917	13·4386794	·0004120313
2428	$2^2.607$	5895184	14313506752	49·2747400	13·4405248	·0004118616
2429	7.347	5900041	14331199589	49·2848861	13·4423698	·0004116921
2430	$2.3^5.5$	5904900	14348907000	49·2950302	13·4442142	·0004115226
2431	11.13.17	5909761	14366628991	49·3051721	13·4460581	·0004113534
2432	$2^7.19$	5914624	14384365568	49·3153120	13·4479016	·0004111842
2433	3.811	5919489	14402116737	49·3254498	13·4497445	·0004110152
2434	2.1217	5924356	14419882504	49·3355855	13·4515869	·0004108463
2435	5.487	5929225	14437662875	49·3457192	13·4534289	·0004106776
2436	$2^2.3.7.29$	5934096	14455457856	49·3558507	13·4552703	·0004105090
2437	.....	5938969	14473267453	49·3659802	13·4571112	·0004103406
2438	2.23.53	5943844	14491091672	49·3761076	13·4589516	·0004101723
2439	$3^2.271$	5948721	14508930519	49·3862329	13·4607916	·0004100041
2440	$2^3.5.61$	5953600	14526784000	49·3963561	13·4626310	·0004098361
2441	.....	5958481	14544652121	49·4064773	13·4644699	·0004096682
2442	2.3.11.37	5963364	14562534888	49·4165964	13·4663083	·0004095004
2443	7.349	5968249	14580432307	49·4267134	13·4681462	·0004093328
2444	$2^2.13.47$	5973136	14598344384	49·4368284	13·4699836	·0004091653
2445	3.5.163	5978025	14616271125	49·4469413	13·4718205	·0004089980
2446	2.1223	5982916	14634212536	49·4570521	13·4736569	·0004088307
2447	.....	5987809	14652168623	49·4671608	13·4754928	·0004086637
2448	$2^4.3^2.17$	5992704	14670139392	49·4772675	13·4773282	·0004084967
2449	31.79	5997601	14688124849	49·4873721	13·4791631	·0004083299
2450	$2.5^2.7^2$	6002500	14706125000	49·4974747	13·4809975	·0004081633
2451	3.19.43	6007401	14724139851	49·5075752	13·4828314	·0004079967
2452	$2^2.613$	6012304	14742169408	49·5176736	13·4846648	·0004078303
2453	11.223	6017209	14760213677	49·5277700	13·4864977	·0004076641
2454	2.3.409	6022116	14778272664	49·5378643	13·4883300	·0004074980
2455	5.491	6027025	14796346375	49·5479566	13·4901619	·0004073320
2456	$2^3.307$	6031936	14814434816	49·5580468	13·4919933	·0004071661
2457	$3^3.7.13$	6036849	14832537993	49·5681349	13·4938243	·0004070004
2458	2.1229	6041764	14850655912	49·5782210	13·4956547	·0004068348
2459	.....	6046681	14868788579	49·5883050	13·4974847	·0004066694

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2460	$2^2.3.5.41$	6051600	14886936000	49·5983871	13·4993141	·0004065041
2461	23.107	6056521	14905098181	49·6084670	13·5011430	·0004063389
2462	2.1231	6061444	14923275128	49·6185449	13·5029715	·0004061738
2463	3.821	6066369	14941466847	49·6286208	13·5047994	·0004060089
2464	$2^3.7.11$	6071296	14959673344	49·6386946	13·5066268	·0004058442
2465	5.17.29	6076225	14977894625	49·6487663	13·5084538	·0004056795
2466	$2.3^2.137$	6081156	14996130696	49·6588361	13·5102802	·0004055150
2467	.....	6086089	15014381563	49·6689037	13·5121062	·0004053506
2468	$2^2.617$	6091024	15032647232	49·6789694	13·5139316	·0004051864
2469	3.823	6095961	15050927709	49·6890330	13·5157566	·0004050223
2470	2.5.13.19	6100900	15069223000	49·6990945	13·5175811	·0004048583
2471	7.353	6105841	15087533111	49·7091540	13·5194051	·0004046945
2472	$2^3.3.103$	6110784	15105858048	49·7192116	13·5212286	·0004045307
2473	.....	6115729	15124197817	49·7292670	13·5230516	·0004043672
2474	2.1237	6120676	15142552424	49·7393204	13·5248741	·0004042037
2475	$3^2.5^2.11$	6125625	15160921875	49·7493718	13·5266961	·0004040404
2476	$2^2.619$	6130576	15179306176	49·7594212	13·5285176	·0004038772
2477	.....	6135529	15197705333	49·7694685	13·5303386	·0004037142
2478	2.3.7.59	6140484	15216119352	49·7795138	13·5321592	·0004035513
2479	37.67	6145441	15234548239	49·7895571	13·5339793	·0004033885
2480	$2^4.5.31$	6150400	15252992000	49·7995984	13·5357989	·0004032258
2481	3.827	6155361	15271450641	49·8096376	13·5376179	·0004030633
2482	2.17.73	6160324	15289924168	49·8196748	13·5394365	·0004029009
2483	13.191	6165289	15308412587	49·8297100	13·5412546	·0004027386
2484	$2^2.3^2.23$	6170256	15326915904	49·8397432	13·5430722	·0004025765
2485	5.7.71	6175225	15345434125	49·8497743	13·5448894	·0004024145
2486	2.11.113	6180196	15363967256	49·8598034	13·5467060	·0004022526
2487	3.829	6185169	15382515303	49·8698305	13·5485222	·0004020909
2488	$2^3.311$	6190144	15401078272	49·8798557	13·5503379	·0004019293
2489	19.131	6195121	15419656169	49·8898787	13·5521531	·0004011678
2490	2.3.5.83	6200100	15438249000	49·8998998	13·5539677	·0004016064
2491	47.53	6205081	15456856771	49·9099188	13·5557819	·0004014452
2492	$2^2.7.89$	6210064	15475479488	49·9199359	13·5575956	·0004012841
2493	$3^2.277$	6215049	15494117157	49·9299509	13·5594089	·0004011231
2494	2.29.43	6220036	15512769784	49·9399639	13·5612216	·0004009623
2495	5.499	6225025	15531437375	49·9499749	13·5630339	·0004008016
2496	$2^6.3.13$	6230016	15550119936	49·9599840	13·5648457	·0004006410
2497	11.227	6235009	15568817473	49·9699910	13·5666570	·0004004806
2498	2.1249	6240004	15587529992	49·9799960	13·5684678	·0004003203
2499	$3.7^2.17$	6245001	15606257499	49·9899990	13·5702782	·0004001601
2500	$2^2.5^4$	6250000	15625000000	50·0000000	13·5720880	·0004000000
2501	41.61	6255001	15643757501	50·0099990	13·5738974	·0003998401
2502	$2.3^2.139$	6260004	15662530008	50·0199960	13·5757063	·0003996803
2503	.....	6265009	15681317527	50·0299910	13·5775147	·0003995206
2504	$2^3.139$	6270016	15700120064	50·0399840	13·5793227	·0003993610
2505	3.5.167	6275025	15718937625	50·0499750	13·5811301	·0003992016
2506	2.7.179	6280036	15737770216	50·0599640	13·5829371	·0003990423
2507	23.109	6285049	15756617843	50·0699510	13·5847436	·0003988831
2508	$2^2.3.11.19$	6290064	15775480512	50·0799361	13·5865496	·0003987241
2509	13.193	6295081	15794358229	50·0899191	13·5883551	·0003985652
2510	2.5.251	6300100	15813251000	50·0999002	13·5901601	·0003984064
2511	$3^4.31$	6305121	15832158831	50·1098793	13·5919647	·0003982477
2512	$2^4.157$	6310144	15851081728	50·1198563	13·5937687	·0003980892
2513	7.359	6315169	15870019697	50·1298314	13·5955724	·0003979308
2514	2.3.419	6320196	15888972744	50·1398045	13·5973755	·0003977725
2515	5.503	6325225	15907940875	50·1497756	13·5991782	·0003976143
2516	$2^2.17.37$	6330256	15926924096	50·1597448	13·6009803	·0003974563
2517	3.839	6335289	15945922413	50·1697120	13·6027820	·0003972984
2518	2.1259	6340324	15964935832	50·1796771	13·6045833	·0003971406
2519	11.229	6345361	15983964359	50·1896403	13·6063840	·0003969829

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2520	$2^3.3^2.5.7$	6350400	16003008000	50·1996016	13·6081842	·0003968254
2521	.....	6355441	16022066761	50·2095608	13·6099840	·0003966680
2522	2.13.97	6360484	16041140648	50·2195181	13·6117833	·0003965107
2523	3.29^2	6365529	16060229667	50·2294734	13·6135822	·0003963535
2524	$2^2.631$	6370576	16079333824	50·2394267	13·6153805	·0003961965
2525	$5^2.101$	6375625	16098453125	50·2493781	13·6171784	·0003960396
2526	2.3.421	6380676	16117587576	50·2593275	13·6189759	·0003958828
2527	7.19^2	6385729	16136737183	50·2692749	13·6207728	·0003957262
2528	$2^5.79$	6390784	16155901952	50·2792204	13·6225693	·0003955696
2529	$3^2.281$	6395841	16175081889	50·2891638	13·6243653	·0003954132
2530	2.5.11.23	6400900	16194277000	50·2991053	13·6261608	·0003952569
2531	.....	6405961	16213487291	50·3090449	13·6279558	·0003951007
2532	$2^2.3.211$	6411024	16232712768	50·3189825	13·6297504	·0003949447
2533	17.149	6416089	16251953437	50·3289181	13·6315445	·0003947888
2534	2.7.181	6421156	16271209304	50·3388518	13·6333381	·0003946330
2535	$3.5.13^2$	6426225	16290480375	50·3487835	13·6351312	·0003944773
2536	$2^3.317$	6431296	16309766656	50·3587132	13·6369239	·0003943218
2537	43.59	6436369	16329068153	50·3686410	13·6387161	·0003941663
2538	$2.3^2.47$	6441444	16348384872	50·3785668	13·6405079	·0003940110
2539	.....	6446521	16367716819	50·3884907	13·6422991	·0003938558
2540	$2^2.5.127$	6451600	16387064000	50·3984127	13·6440899	·0003937008
2541	$3.7.11^2$	6456681	16406426421	50·4083326	13·6458803	·0003935458
2542	2.31.41	6461764	16425804088	50·4182506	13·6476701	·0003933910
2543	.....	6466849	16445197007	50·4281667	13·6494595	·0003932363
2544	$2^4.3.53$	6471936	16464605184	50·4380809	13·6512484	·0003930818
2545	5.509	6477025	16484028625	50·4479930	13·6530368	·0003929273
2546	2.19.67	6482116	16503467336	50·4579032	13·6548248	·0003927730
2547	$3^2.283$	6487209	16522921323	50·4678115	13·6566123	·0003926188
2548	$2^2.7^2.13$	6492304	16542390592	50·4777179	13·6583993	·0003924647
2549	.....	6497401	16561875149	50·4876222	13·6601859	·0003923107
2550	$2.3.5^2.17$	6502500	16581375000	50·4975247	13·6619720	·0003921569
2551	.....	6507601	16600890151	50·5074252	13·6637576	·0003920031
2552	$2^3.11.29$	6512704	16620420608	50·5173238	13·6655428	·0003918495
2553	3.23.37	6517809	16639966377	50·5272204	13·6673275	·0003916960
2554	2.1277	6522916	16659527464	50·5371151	13·6691117	·0003915427
2555	5.7.73	6528025	16679103875	50·5470078	13·6708955	·0003913894
2556	$2^2.3^2.71$	6533136	16698695616	50·5568986	13·6726788	·0003912363
2557	.....	6538249	16718302693	50·5667875	13·6744616	·0003910833
2558	2.1279	6543364	16737925112	50·5766745	13·6762440	·0003909304
2559	3.853	6548481	16757562879	50·5865595	13·6780259	·0003907776
2560	$2^9.5$	6553600	16777216000	50·5964426	13·6798074	·0003906250
2561	13.197	6558721	16796884481	50·6063237	13·6815884	·0003904725
2562	2.3.7.61	6563844	16816568328	50·6162029	13·6833689	·0003903201
2563	11.233	6568969	16836267547	50·6260802	13·6851490	·0003901678
2564	$2^2.641$	6574096	16855982144	50·6359556	13·6869286	·0003900156
2565	$3^3.5.19$	6579225	16875712125	50·6458290	13·6887078	·0003898635
2566	2.1283	6584356	16895457496	50·6557005	13·6904865	·0003897116
2567	17.151	6589489	16915218263	50·6655701	13·6922647	·0003895598
2568	$2^3.3.107$	6594624	16934994432	50·6754378	13·6940425	·0003894081
2569	7.367	6599761	16954786009	50·6853036	13·6958198	·0003892565
2570	2.5.257	6604900	16974593000	50·6951674	13·6975967	·0003891051
2571	3.857	6610041	16994415411	50·7050293	13·6993730	·0003889537
2572	$2^2.643$	6615184	17014253248	50·7148893	13·7011489	·0003888025
2573	31.83	6620329	17034106517	50·7247474	13·7029244	·0003886514
2574	$2.3^2.11.13$	6625476	17053975224	50·7346036	13·7046994	·0003885004
2575	$5^2.103$	6630625	17073859375	50·7444578	13·7064739	·0003883495
2576	$2^4.7.23$	6635776	17093758976	50·7543102	13·7082480	·0003881988
2577	3.859	6640929	17113674033	50·7641606	13·7100216	·0003880481
2578	2.1289	6646084	17133604552	50·7740091	13·7117948	·0003878976
2579	.....	6651241	17153550539	50·7838557	13·7135675	·0003877472

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2580	$2^2.3.5.43$	6656400	17173512000	50·7937004	13·7153397	·0003875969
2581	29.89	6661561	17193488941	50·8035432	13·7171115	·0003874467
2582	2.1291	6666724	17213481368	50·8133841	13·7188828	·0003872967
2583	$3^2.7.41$	6671889	17233489287	50·8232230	13·7206537	·0003871467
2584	$2^3.17.19$	6677056	17253512704	50·8330601	13·7224241	·0003869969
2585	5.11.47	6682225	17273551625	50·8428953	13·7241940	·0003868472
2586	2.3.431	6687396	17293606056	50·8527285	13·7259635	·0003866976
2587	13.199	6692569	17313676003	50·8625599	13·7277326	·0003865481
2588	$2^2.647$	6697744	17333761472	50·8723894	13·7295011	·0003863988
2589	3.863	6702921	17353862469	50·8822169	13·7312693	·0003862495
2590	2.5.7.37	6708100	17373979000	50·8920426	13·7330369	·0003861004
2591	.....	6713281	17394111071	50·9018663	13·7348041	·0003859514
2592	$2^5.3^4$	6718464	17414258688	50·9116882	13·7365709	·0003858025
2593	.....	6723649	17434421857	50·9215082	13·7383372	·0003856537
2594	2.1297	6728836	17454600584	50·9313263	13·7401031	·0003855050
2595	5.5.173	6734025	17474794875	50·9411425	13·7418685	·0003853565
2596	$2^2.11.59$	6739216	17495004736	50·9509568	13·7436334	·0003852080
2597	7^3 53	6744409	17515230173	50·9607692	13·7453979	·0003850597
2598	2.3.433	6749604	17535471192	50·9705797	13·7471620	·0003849115
2599	23.113	6754801	17555727799	50·9803884	13·7489256	·0003847634
2600	$2^3.5^2.13$	6760000	17576000000	50·9901951	13·7506887	·0003846154
2601	$3^2.17^2$	6765201	17596287801	51·0000000	13·7524514	·0003844675
2602	2.1301	6770404	17616591208	51·0098030	13·7542136	·0003843198
2603	19.137	6775609	17636910227	51·0196041	13·7559754	·0003841721
2604	$2^2.3.7.31$	6780816	17657244864	51·0294033	13·7577367	·0003840246
2605	5.521	6786025	17677595125	51·0392006	13·7594976	·0003838772
2606	2.1303	6791236	17697961016	51·0489961	13·7612580	·0003837299
2607	3.11.79	6796449	17718342543	51·0587896	13·7630180	·0003835827
2608	$2^4.163$	6801664	17738739712	51·0685813	13·7647775	·0003834356
2609	.....	6806881	17759152529	51·0783711	13·7665366	·0003832886
2610	$2.3^2.5.29$	6812100	17779581000	51·0881591	13·7682952	·0003831418
2611	7.373	6817321	17800025131	51·0979451	13·7700534	·0003829950
2612	$2^2.653$	6822544	17820484928	51·1077294	13·7718111	·0003828484
2613	3.13.67	6827769	17840960397	51·1175117	13·7735684	·0003827019
2614	2.1307	6832996	17861451544	51·1272921	13·7753252	·0003825555
2615	5.523	6838225	17881958375	51·1370707	13·7770816	·0003824092
2616	$2^3.3.109$	6843456	17902480896	51·1468474	13·7788375	·0003822630
2617	.....	6848689	17923019113	51·1566222	13·7805930	·0003821169
2618	2.7.11.17	6853924	17943573032	51·1663952	13·7823481	·0003819710
2619	$3^3.97$	6859161	17964142659	51·1761663	13·7841027	·0003818251
2620	$2^2.5.131$	6864400	17984728000	51·1859356	13·7858568	·0003816794
2621	.....	6869641	18005329061	51·1957029	13·7876105	·0003815338
2622	2.3.19.23	6874884	18025945848	51·2054684	13·7893638	·0003813883
2623	43.61	6880129	18046578367	51·2152321	13·7911166	·0003812429
2624	$2^6.41$	6885376	18067226624	51·2249939	13·7928689	·0003810976
2625	$3.5^3.7$	6890625	18087890625	51·2347538	13·7946209	·0003809524
2626	2.13.101	6895876	18108570376	51·2445119	13·7963723	·0003808073
2627	37.71	6901129	18129265883	51·2542681	13·7981233	·0003806624
2628	$2^2.3^2.73$	6906384	18149977152	51·2640225	13·7998739	·0003805175
2629	11.239	6911641	18170704189	51·2737750	13·8016241	·0003803728
2630	2.5.263	6916900	18191447000	51·2835256	13·8033738	·0003802281
2631	3.877	6922161	18212205591	51·2932744	13·8051230	·0003800836
2632	$2^3.7.47$	6927424	18232979968	51·3030214	13·8068719	·0003799392
2633	.....	6932689	18253770137	51·3127664	13·8086202	·0003797949
2634	2.3.439	6937956	18274576104	51·3225097	13·8103682	·0003796507
2635	5.17.31	6943225	18295397875	51·3322510	13·8121156	·0003795066
2636	$2^2.659$	6948496	18316235456	51·3419906	13·8138627	·0003793627
2637	$3^2.293$	6953769	18337088853	51·3517283	13·8156093	·0003792188
2638	2.1319	6959044	18357958072	51·3614641	13·8173554	·0003790751
2639	7.13.29	6964321	18378843119	51·3711981	13·8191012	·0003789314

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2640	$2^4.3.5.11$	6969600	18399744000	51·3809303	13·8208464	·0003787879
2641	19.139	6974881	18420660721	51·3906606	13·8225913	·0003786445
2642	2.1321	6980164	18441593288	51·4003891	13·8243357	·0003785011
2643	3.881	6985449	18462541707	51·4101157	13·8260796	·0003783579
2644	$2^2.661$	6990736	18483505984	51·4198405	13·8278231	·0003782148
2645	5.23^2	6996025	18504486125	51·4295635	13·8295662	·0003780718
2646	$2.3^3\ 7^2$	7001316	18525482136	51·4392846	13·8313088	·0003779289
2647	.....	7006609	18546494023	51·4490038	13·8330510	·0003777862
2648	$2^3.331$	7011904	18567521792	51·4587213	13·8347928	·0003776435
2649	3.883	7017201	18588565449	51·4684369	13·8365341	·0003775009
2650	$2.5^2.53$	7022500	18609625000	51·4781507	13·8382750	·0003773585
2651	11.241	7027801	18630700451	51·4878626	13·8400155	·0003772161
2652	$2^2.3.13.17$	7033104	18651791808	51·4975727	13·8417555	·0003770739
2653	7.379	7038409	18672899077	51·5072810	13·8434951	·0003769318
2654	2.1327	7043716	18694022264	51·5169874	13·8452342	·0003767898
2655	$3^2.5.59$	7049025	18715161375	51·5266921	13·8469729	·0003766478
2656	$2^5.83$	7054336	18736316416	51·5363949	13·8487111	·0003765060
2657	.....	7059649	18757487393	51·5460959	13·8504490	·0003763643
2658	2.3.443	7064964	18778674312	51·5557950	13·8521864	·0003762227
2659	.....	7070281	18799877179	51·5654923	13·8539233	·0003760812
2660	$2^2.5.7.19$	7075600	18821096000	51·5751878	13·8556599	·0003759398
2661	3.887	7080921	18842330781	51·5848815	13·8573959	·0003757986
2662	2.11^3	7086244	18863581528	51·5945734	13·8591316	·0003756574
2663	.....	7091569	18884848247	51·6042634	13·8608668	·0003755163
2664	$2^3.3^2.37$	7096896	18906130944	51·6139516	13·8626015	·0003753754
2665	5.13.41	7102225	18927429625	51·6236380	13·8643359	·0003752345
2666	2.31.43	7107556	18948744296	51·6333225	13·8660698	·0003750938
2667	3.7.127	7112889	18970074963	51·6430053	13·8678032	·0003749531
2668	$2^2.23.29$	7118224	19991421632	51·6526863	13·8695363	·0003748126
2669	17.157	7123561	19012784309	51·6623654	13·8712689	·0003746722
2670	2.3.5.89	7128900	19034163000	51·6720427	13·8730011	·0003745318
2671	.....	7134241	19055557711	51·6817182	13·8747328	·0003743916
2672	$2^4.167$	7139584	19076968448	51·6913919	13·8764641	·0003742515
2673	$3^5.11$	7144929	19098395217	51·7010638	13·8781950	·0003741115
2674	2.7.191	7150276	19119838024	51·7107339	13·8799255	·0003739716
2675	$5^2.107$	7155625	19141296875	51·7204021	13·8816555	·0003738318
2676	$2^2.3.223$	7160976	19162771776	51·7300686	13·8833851	·0003736921
2677	.....	7166329	19184262733	51·7397333	13·8851142	·0003735525
2678	2.13.103	7171684	19205769752	51·7493961	13·8868430	·0003734130
2679	3.19.47	7177041	19227292839	51·7590571	13·8885713	·0003732736
2680	$2^3.5.67$	7182400	19248832000	51·7687164	13·8902991	·0003731343
2681	7.383	7187761	19270387241	51·7783738	13·8920266	·0003729952
2682	$2.3^2.149$	7193124	19291958568	51·7880295	13·8937536	·0003728561
2683	.....	7198489	19313545987	51·7976833	13·8954802	·0003727171
2684	$2^2.11.61$	7203856	19335149504	51·8073354	13·8972063	·0003725782
2685	3.5.179	7209225	19356769125	51·8169856	13·8989320	·0003724395
2686	2.17.79	7214596	19378404856	51·8266340	13·9006573	·0003723008
2687	.....	7219969	19400056703	51·8362807	13·9023822	·0003721623
2688	$2^7.3.7$	7225344	19421724672	51·8459256	13·9041066	·0003720238
2689	.....	7230721	19443408769	51·8555686	13·9058306	·0003718855
2690	2.5.269	7236100	19465109000	51·8652099	13·9075542	·0003717472
2691	$3^2.13.23$	7241481	19486825371	51·8748494	13·9092774	·0003716091
2692	$2^2.673$	7246864	19508557888	51·8844871	13·9110001	·0003714710
2693	.....	7252249	19530306557	51·8941230	13·9127224	·0003713331
2694	2.3.449	7257636	19552071384	51·9037571	13·9144443	·0003711952
2695	$5.7^2.11$	7263025	19573852375	51·9133894	13·9161657	·0003710575
2696	$2^3.337$	7268416	19595649536	51·9230199	13·9178867	·0003709199
2697	3.29.31	7273809	19617462873	51·9326487	13·9196073	·0003707824
2698	2.19.71	7279204	19639292392	51·9422756	13·9213274	·0003706449
2699	.....	7284601	19661138099	51·9519008	13·9230472	·0003705076

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2700	$2^2.3^3.5^2$	7290000	19683000000	51·9615242	13·9247665	·0003703704
2701	37.73	7295401	19704878101	51·9711458	13·9264854	·0003702332
2702	2.7.193	7300804	19726772408	51·9807656	13·9282038	·0003700962
2703	3.17.53	7306209	19748682927	51·9903837	13·9299219	·0003699593
2704	$2^4.13^2$	7311616	19770609664	52·0000000	13·9316395	·0003698225
2705	5.541	7317025	19792552625	52·0096145	13·9333567	·0003696858
2706	2.3.11.41	7322436	19814511816	52·0192272	13·9350735	·0003695492
2707	.....	7327849	19836487243	52·0288381	13·9367898	·0003694126
2708	$2^2.677$	7333264	19858478912	52·0384473	13·9385058	·0003692762
2709	$3^3.7.43$	7338681	19880486829	52·0480547	13·9402213	·0003691399
2710	2.5.271	7344100	19902511000	52·0576603	13·9419364	·0003690037
2711	.....	7349521	19924551431	52·0672642	13·9436510	·0003688676
2712	$2^3.3.113$	7354944	19946608128	52·0768663	13·9453653	·0003687316
2713	.....	7360369	19968681097	52·0864666	13·9470791	·0003685957
2714	2.23.59	7365796	19990770344	52·0960651	13·9487925	·0003684598
2715	3.5.181	7371225	20012875875	52·1056618	13·9505055	·0003683241
2716	$2^2.7.97$	7376656	20034997696	52·1152569	13·9522181	·0003681885
2717	11.13.19	7382089	20057135813	52·1248501	13·9539302	·0003680530
2718	$2.3^2.151$	7387524	20079290232	52·1344416	13·9556420	·0003679176
2719	.....	7392961	20101460959	52·1440313	13·9573533	·0003677823
2720	$2^5.5.17$	7398400	20123648000	52·1536192	13·9590642	·0003676471
2721	3.907	7403841	20145851361	52·1632054	13·9607746	·0003675119
2722	2.1361	7409284	20168071048	52·1727898	13·9624847	·0003673769
2723	7.389	7414729	20190307067	52·1823725	13·9641943	·0003672420
2724	$2^2.3.227$	7420176	20212559424	52·1919534	13·9659035	·0003671072
2725	$5^2.109$	7425625	20234828125	52·2015325	13·9676123	·0003669725
2726	2.29.47	7431076	20257113176	52·2111099	13·9693207	·0003668379
2727	$3^3.101$	7436529	20279414583	52·2206855	13·9710286	·0003667033
2728	$2^3.11.31$	7441984	20301732352	52·2302594	13·9727361	·0003665689
2729	.....	7447441	20324066489	52·2398315	13·9744432	·0003664346
2730	2.3.5.7.13	7452900	20346417000	52·2494019	13·9761499	·0003663004
2731	.....	7458361	20368783891	52·2589705	13·9778562	·0003661662
2732	$2^2.683$	7463824	20391167168	52·2685374	13·9795621	·0003660322
2733	3.911	7469289	20413566837	52·2781025	13·9812675	·0003658983
2734	2.1367	7474756	20435982904	52·2876658	13·9829725	·0003657644
2735	5.547	7480225	20458415375	52·2972274	13·9846771	·0003656307
2736	$2^4.3^2.19$	7485696	20480864256	52·3067873	13·9863813	·0003654971
2737	7.17.23	7491169	20503329553	52·3163454	13·9880852	·0003653635
2738	2.37^2	7496644	20525811272	52·3259018	13·9897885	·0003652301
2739	3.11.83	7502121	20548309419	52·3354564	13·9914914	·0003650968
2740	$2^2.5.137$	7507600	20570824000	52·3450093	13·9931939	·0003649635
2741	.....	7513081	20593355021	52·3545604	13·9948961	·0003648304
2742	2.3.457	7518564	20615902488	52·3641098	13·9965978	·0003646973
2743	13.211	7524049	20638466407	52·3736575	13·9982991	·0003645643
2744	$2^3.7^3$	7529536	20661046784	52·3832034	14·0000000	·0003644315
2745	$3^2.5.61$	7535025	20683643625	52·3927476	14·0017005	·0003642987
2746	2.1373	7540516	20706256936	52·4022900	14·0034005	·0003641661
2747	41.67	7546009	20728886723	52·4118307	14·0051002	·0003640335
2748	$2^2.3.229$	7551504	20751532992	52·4213697	14·0067994	·0003639010
2749	.....	7557001	20774195749	52·4309069	14·0084983	·0003637686
2750	$2.5^3.11$	7562500	20796875000	52·4404424	14·0101967	·0003636364
2751	3.7.131	7568001	20819570751	52·4499761	14·0118947	·0003635042
2752	$2^6.43$	7573504	20842283008	52·4595082	14·0135923	·0003633721
2753	.....	7579009	20865011777	52·4690385	14·0152895	·0003632401
2754	$2.3^4.17$	7584516	20887757064	52·4785670	14·0169862	·0003631082
2755	5.19.29	7590025	20910518875	52·4880938	14·0186826	·0003629764
2756	$2^2.13.53$	7595536	20933297216	52·4976190	14·0203785	·0003628447
2757	3.919	7601049	20956092093	52·5071424	14·0220741	·0003627131
2758	2.7.197	7606564	20978903512	52·5166640	14·0237692	·0003625816
2759	31.89	7612081	21001731479	52·5261839	14·0254639	·0003624502

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2760	$2^3.3.5.23$	7617600	21024576000	52·5357021	14·0271582	·0003623188
2761	11.251	7623121	21047437081	52·5452186	14·0288521	·0003621876
2762	2.1381	7628644	21070314728	52·5547333	14·0305456	·0003620565
2763	$3^2.307$	7634169	21093208947	52·5642464	14·0322387	·0003619254
2764	$2^2.691$	7639696	21116119744	52·5737577	14·0339314	·0003617945
2765	5.7.79	7645225	21139047125	52·5832673	14·0356236	·0003616637
2766	2.3.461	7650756	21161991096	52·5927751	14·0373155	·0003615329
2767	.....	7656289	21184951663	52·6022813	14·0390069	·0003614022
2768	$2^4.173$	7661824	21207928832	52·6117858	14·0406980	·0003612717
2769	3.13.71	7667361	21230922609	52·6212885	14·0423886	·0003611412
2770	2.5.277	7672900	21253933000	52·6307894	14·0440788	·0003610108
2771	17.163	7678441	21276960011	52·6402887	14·0457687	·0003608805
2772	$2^2.3^2.7.11$	7683984	21300003648	52·6497863	14·0474581	·0003607504
2773	47.59	7689529	21323063917	52·6592822	14·0491471	·0003606203
2774	2.19.73	7695076	21346140824	52·6687763	14·0508357	·0003604903
2775	$3.5^2.37$	7700625	21369234375	52·6782687	14·0525238	·0003603604
2776	$2^3.347$	7706176	21392344576	52·6877595	14·0542116	·0003602305
2777	.....	7711729	21415471433	52·6972485	14·0558989	·0003601008
2778	2.3.463	7717284	21438614952	52·7067358	14·0575859	·0003599712
2779	7.397	7722841	21461775139	52·7162214	14·0592725	·0003598417
2780	$2^2.5.139$	7728400	21484952000	52·7257053	14·0609587	·0003597122
2781	$3^3.103$	7733961	21508145541	52·7351875	14·0626444	·0003595829
2782	2.13.107	7739524	21531355768	52·7446680	14·0643298	·0003594536
2783	$11^2.23$	7745089	21554582687	52·7541467	14·0660148	·0003593245
2784	$2^5.3.29$	7750656	21577826304	52·7636238	14·0676993	·0003591954
2785	5.557	7756225	21601086625	52·7730992	14·0693835	·0003590664
2786	2.7.199	7761796	21624363656	52·7825728	14·0710672	·0003589375
2787	3.929	7767369	21647657403	52·7920448	14·0727505	·0003588088
2788	$2^2.17.41$	7772944	21670967872	52·8015151	14·0744335	·0003586801
2789	.....	7778521	21694295069	52·8109837	14·0761160	·0003585515
2790	$2.3^2.5.31$	7784100	21717639000	52·8204506	14·0777982	·0003584229
2791	.....	7789681	21740999671	52·8299157	14·0794799	·0003582945
2792	$2^3.349$	7795264	21764377088	52·8393793	14·0811612	·0003581662
2793	$3.7^2.19$	7800849	21787771257	52·8488410	14·0828422	·0003580380
2794	2.11.127	7806436	21811182184	52·8583011	14·0845227	·0003579098
2795	5.13.43	7812025	21834609875	52·8677595	14·0862028	·0003577818
2796	$2^2.3.233$	7817616	21858054336	52·8772163	14·0878826	·0003576538
2797	.....	7823209	21881515673	52·8866713	14·0895619	·0003575259
2798	2.1399	7828804	21904993592	52·8961246	14·0912408	·0003573981
2799	9.311	7834401	21928488399	52·9055762	14·0929194	·0003572705
2800	$2^4.5^2.7$	7840000	21952000000	52·9150262	14·0945975	·0003571429
2801	.....	7845601	21975528401	52·9244745	14·0962752	·0003570154
2802	2.3.467	7851204	21999073608	52·9339210	14·0979525	·0003568879
2803	.....	7856809	22022635627	52·9433659	14·0996295	·0003567606
2804	$2^2.701$	7862416	22046214464	52·9528092	14·1013060	·0003566334
2805	3.5.11.17	7868025	22069810125	52·9622507	14·1029821	·0003565062
2806	2.23.61	7873636	22093422616	52·9716905	14·1046579	·0003563792
2807	7.401	7879249	22117051943	52·9811287	14·1063332	·0003562522
2808	$2^3.3^3.13$	7884864	22140698112	52·9905652	14·1080081	·0003561254
2809	53^2	7890481	22164361129	53·0000000	14·1096827	·0003559986
2810	2.5.281	7896100	22188041000	53·0094331	14·1113568	·0003558719
2811	3.937	7901721	22211737731	53·0188646	14·1130306	·0003557453
2812	$2^2.19.37$	7907344	22235451328	53·0282943	14·1147040	·0003556188
2813	29.97	7912969	22259181797	53·0377224	14·1163769	·0003554924
2814	2.3.7.67	7918596	22282929144	53·0471488	14·1180495	·0003553660
2815	5.563	7924225	22306693375	53·0565736	14·1197216	·0003552398
2816	$2^8.11$	7929856	22330474496	53·0659966	14·1213934	·0003551136
2817	$3^2.313$	7935489	22354272513	53·0754180	14·1230648	·0003549876
2818	2.1409	7941124	22378087432	53·0848378	14·1247357	·0003548616
2819	.....	7946761	22401919259	53·0942558	14·1264065	·0003547357

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2820	$2^2.3.5.47$	7952400	22425768000	53·1036722	14·1280765	·0003546099
2821	7.13.31	7958041	22449633661	53·1130869	14·1297463	·0003544842
2822	2.17.83	7963684	22473516248	53·1224999	14·1314157	·0003543856
2823	3.941	7969329	22497415767	53·1319119	14·1330847	·0003542331
2824	$2^3.353$	7974976	22521332224	53·1413210	14·1347533	·0003541076
2825	$5^2.113$	7980625	22545265625	53·1507291	14·1364215	·0003539823
2826	$2.3^2.157$	7986276	22569215976	53·1601354	14·1380893	·0003538570
2827	11.257	7991929	22593183283	53·1695401	14·1397567	·0003537319
2828	$2^2.7.101$	7997584	22617167552	53·1789432	14·1414237	·0003536068
2829	3.23.41	8003241	22641168789	53·1883446	14·1430904	·0003534818
2830	2.5.283	8008900	22665187000	53·1977443	14·1447566	·0003533569
2831	19.149	8014561	22689222191	53·2071424	14·1464224	·0003532321
2832	$2^4.3.59$	8020224	22713274368	53·2165388	14·1480879	·0003531073
2833	.....	8025889	22737343537	53·2259335	14·1497530	·0003529827
2834	2.13.109	8031556	22761429704	53·2353266	14·1514177	·0003528582
2835	$3^4.5.7$	8037225	22785532875	53·2447180	14·1530819	·0003527337
2836	$2^2.709$	8042896	22809653056	53·2541078	14·1547458	·0003526093
2837	.....	8048569	22833790253	53·2634959	14·1564094	·0003524850
2838	2.3.11.43	8054244	22857944472	53·2728824	14·1580725	·0003523608
2839	17.167	8059921	22882115719	53·2822672	14·1597352	·0003522367
2840	$2^3.5.71$	8065600	22906304000	53·2916504	14·1613975	·0003521127
2841	3.947	8071281	22930509321	53·3010319	14·1630595	·0003519887
2842	$2.7^2.29$	8076964	22954731688	53·3104117	14·1647210	·0003518649
2843	.....	8082649	22978971107	53·3197899	14·1663822	·0003517411
2844	$2^2.3^2.79$	8088336	23003227584	53·3291665	14·1680430	·0003516174
2845	5.569	8094025	23027501125	53·3385414	14·1697034	·0003514938
2846	2.1423	8099716	23051791736	53·3479146	14·1713634	·0003513703
2847	3.13.73	8105409	23076099423	53·3572863	14·1730230	·0003512469
2848	$2^5.89$	8111104	23100424192	53·3666563	14·1746822	·0003511236
2849	7.11.37	8116801	23124766049	53·3760246	14·1763410	·0003510004
2850	$2.3.5^2.19$	8122500	23149125000	53·3853912	14·1779994	·0003508772
2851	.....	8128201	23173501051	53·3947563	14·1796575	·0003507541
2852	$2^2.23.31$	8133904	23197894208	53·4041197	14·1813151	·0003506311
2853	$3^2.317$	8139609	23222304477	53·4134814	14·1829724	·0003505082
2854	2.1427	8145316	23246731864	53·4228416	14·1846293	·0003503854
2855	5.571	8151025	23271176375	53·4322000	14·1862857	·0003502627
2856	$2^3.3.7.17$	8156736	23295638016	53·4415569	14·1879418	·0003501401
2857	.....	8162449	23320116793	53·4509121	14·1895976	·0003500175
2858	2.1429	8168164	23344612712	53·4602656	14·1912529	·0003498950
2859	3.953	8173881	23369125779	53·4696175	14·1929079	·0003497726
2860	$2^2.5.11.13$	8179600	23393656000	53·4789678	14·1945625	·0003496503
2861	.....	8185321	23418203381	53·4883165	14·1962167	·0003495281
2862	2.3.9.53	8191044	23442767928	53·4976635	14·1978705	·0003494060
2863	7.409	8196769	23467349647	53·5070089	14·1995239	·0003492840
2864	$2^4.179$	8202496	23491948544	53·5163526	14·2011769	·0003491620
2865	3.5.191	8208225	23516564625	53·5256948	14·2028296	·0003490401
2866	2.1433	8213956	23541197896	53·5350352	14·2044818	·0003489184
2867	47.61	8219689	23565848363	53·5443741	14·2061337	·0003487967
2868	$2^2.3.239$	8225424	23590516032	53·5537114	14·2077852	·0003486750
2869	19.151	8231161	23615200909	53·5630469	14·2094363	·0003485535
2870	2.5.7.41	8236900	23639903000	53·5723809	14·2110870	·0003484321
2871	$3^2.11.29$	8242641	23664622311	53·5817133	14·2127374	·0003483107
2872	$2^3.359$	8248384	23689358848	53·5910440	14·2143873	·0003481894
2873	$13^2.17$	8254129	23714112617	53·6003731	14·2160369	·0003480682
2874	2.3.479	8259876	23738883624	53·6097006	14·2176861	·0003479471
2875	$5^3.23$	8265625	23763671875	53·6190265	14·2193349	·0003478261
2876	$2^2.719$	8271376	23788477376	53·6283507	14·2209833	·0003477051
2877	3.7.137	8277129	23813300133	53·6376733	14·2226313	·0003475843
2878	2.1439	8282884	23838140152	53·6469943	14·2242790	·0003474635
2879	.....	8288641	23862997439	53·6563137	14·2259263	·0003473428

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2880	$2^6.3^2.5$	8294400	23887872000	53·6656315	14·2275732	·0003472222
2881	43.67	8300161	23912763841	53·6749476	14·2292197	·0003471017
2882	2.11.131	8305924	23937672968	53·6842621	14·2308659	·0003469813
2883	3.31^2	8311689	23962599387	53·6935750	14·2325117	·0003468609
2884	$2^2.7.103$	8317456	23987543104	53·7028863	14·2341570	·0003467406
2885	5.577	8323225	24012504125	53·7121960	14·2358021	·0003466205
2886	2.3.13.37	8328996	24037482456	53·7215041	14·2374467	·0003463003
2887	.....	8334769	24062478103	53·7308105	14·2390909	·0003463803
2888	$2^3.19^2$	8340544	24087491072	53·7401154	14·2407348	·0003462604
2889	$3^3.107$	8346321	24112521369	53·7494186	14·2423783	·0003461405
2890	$2.5.17^2$	8352100	24137569000	53·7587202	14·2440213	·0003460208
2891	$7^2.59$	8357881	24162633971	53·7680202	14·2456641	·0003459011
2892	$2^2.3.241$	8363664	24187716288	53·7773186	14·2473064	·0003457815
2893	11.263	8369449	24212815957	53·7866154	14·2489483	·0003456619
2894	2.1447	8375236	24237932984	53·7959106	14·2505899	·0003455425
2895	3.5.193	8381025	24263067375	53·8052042	14·2522311	·0003454231
2896	$2^4.181$	8386816	24288219136	53·8144962	14·2538719	·0003453039
2897	.....	8392609	24313388273	53·8237866	14·2555124	·0003451847
2898	$2.3^2.7.23$	8398404	24338574792	53·8330753	14·2571525	·0003450656
2899	13.223	8404201	24363778699	53·8423625	14·2587922	·0003449465
2900	$2^2.5^2.29$	8410000	24389000000	53·8516481	14·2604315	·0003448276
2901	3.967	8415801	24414238701	53·8609320	14·2620705	·0003447087
2902	2.1451	8421604	24439494808	53·8702144	14·2637090	·0003445899
2903	.....	8427409	24464768327	53·8794952	14·2653472	·0003444712
2904	$2^3.3.11^2$	8433216	24490059264	53·8887743	14·2669850	·0003443526
2905	5.7.83	8439025	24515367625	53·8980519	14·2686224	·0003442341
2906	2.1453	8444836	24540693416	53·9073279	14·2702595	·0003441156
2907	$3^2.17.19$	8450649	24566036643	53·9166022	14·2718961	·0003439972
2908	$2^2.727$	8456464	24591397312	53·9258751	14·2735324	·0003438790
2909	.....	8462281	24616775429	53·9351462	14·2751684	·0003437607
2910	2.3.5.97	8468100	24642171000	53·9444158	14·2768039	·0003436426
2911	41.71	8473921	24667584031	53·9536838	14·2784391	·0003435246
2912	$2^5.7.13$	8479744	24693014528	53·9629503	14·2800740	·0003434066
2913	3.971	8485569	24718462497	53·9722151	14·2817084	·0003432887
2914	2.31.47	8491396	24743927944	53·9814783	14·2833425	·0003431709
2915	5.11.53	8497225	24769410875	53·9907399	14·2849761	·0003430532
2916	$2^2.3^6$	8503056	24794911296	54·0000000	14·2866095	·0003429355
2917	.....	8508889	24820429213	54·0092585	14·2882424	·0003428180
2918	2.1459	8514724	24845964632	54·0185153	14·2898750	·0003427005
2919	3.7.139	8520561	24871517559	54·0277706	14·2915072	·0003425831
2920	$2^3.5.73$	8526400	24897088000	54·0370243	14·2931390	·0003424658
2921	23.127	8532241	24922675961	54·0462765	14·2947705	·0003423485
2922	2.3.487	8538084	24948281448	54·0555270	14·2964015	·0003422313
2923	37.79	8543929	24973904467	54·0647759	14·2980322	·0003421143
2924	$2^2.17.43$	8549776	24999545024	54·0740233	14·2996626	·0003419973
2925	$3^2.5^2.13$	8555625	25025203125	54·0832691	14·3012925	·0003418803
2926	2.7.11.19	8561476	25050878776	54·0925133	14·3029221	·0003417635
2927	.....	8567329	25076571983	54·1017559	14·3045513	·0003416467
2928	$2^4.3.61$	8573184	25102282752	54·1109970	14·3061802	·0003415301
2929	29.101	8579041	25128011089	54·1202365	14·3078087	·0003414135
2930	2.5.293	8584900	25153757000	54·1294744	14·3094368	·0003412969
2931	3.977	8590761	25179520491	54·1387107	14·3110645	·0003411805
2932	$2^2.733$	8596624	25205301568	54·1479455	14·3126919	·0003410641
2933	7.419	8602489	25231100237	54·1571787	14·3143189	·0003409478
2934	$2.3^2.163$	8608356	25256916504	54·1664103	14·3159455	·0003408316
2935	5.587	8614225	25282750375	54·1756403	14·3175718	·0003407155
2936	$2^3.367$	8620096	25308601856	54·1848687	14·3191977	·0003405995
2937	3.11.89	8625969	25334470953	54·1940956	14·3208232	·0003404835
2938	2.13.113	8631844	25360357672	54·2033209	14·3224483	·0003403676
2939	.....	8637721	25386262019	54·2125447	14·3240731	·0003402518

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
2940	$2^2.3.5.7^2$	8643600	25412184000	54·2217668	14·3256975	·0003401361
2941	17.173	8649481	25438123621	54·2309874	14·3273216	·0003400204
2942	2.1471	8655364	25464080888	54·2402065	14·3289452	·0003399048
2943	$3^3.109$	8661249	25490055807	54·2494239	14·3305685	·0003397893
2944	27.23	8667136	25516048384	54·2586399	14·3321915	·0003396739
2945	5.19.31	8673025	25542058625	54·2678542	14·3338141	·0003395586
2946	2.3.491	8678916	25568086536	54·2770670	14·3354363	·0003394433
2947	7.421	8684809	25594132123	54·2862782	14·3370581	·0003393281
2948	$2^2.11.67$	8690704	25620195392	54·2954878	14·3386796	·0003392130
2949	3.983	8696601	25646276349	54·3046959	14·3403007	·0003390980
2950	$2.5^2.59$	8702500	25672375000	54·3139024	14·3419215	·0003389831
2951	13.227	8708401	25698491351	54·3231074	14·3435418	·0003388682
2952	$2^3.3^2.41$	8714304	25724625408	54·3323108	14·3451618	·0003387534
2953	.....	8720209	25750777177	54·3415127	14·3467814	·0003386387
2954	2.7.211	8726116	25776946664	54·3507129	14·3484007	·0003385240
2955	3.5.197	8732025	25803133875	54·3599117	14·3500196	·0003384095
2956	$2^2.7.39$	8737936	25829338816	54·3691089	14·3516381	·0003382950
2957	.....	8743849	25855561493	54·3783045	14·3532563	·0003381806
2958	2.3.17.29	8749764	25881801912	54·3874985	14·3548741	·0003380663
2959	11.269	8755681	25908060079	54·3966910	14·3564916	·0003379520
2960	$2^4.5.37$	8761600	25934336000	54·4058820	14·3581087	·0003378378
2961	$3^2.7.47$	8767521	25960629681	54·4150714	14·3597254	·0003377237
2962	2.1481	8773444	25986941128	54·4242593	14·3613418	·0003376097
2963	.....	8779369	26013270347	54·4334456	14·3629578	·0003374958
2964	$2^2.3.13.19$	8785296	26039617344	54·4426304	14·3645734	·0003373819
2965	5.593	8791225	26065982125	54·4518135	14·3661887	·0003372681
2966	2.1483	8797156	26092364696	54·4609952	14·3678036	·0003371544
2967	3.23.43	8803089	26118765063	54·4701753	14·3694181	·0003370408
2968	$2^3.7.53$	8809024	26145183232	54·4793539	14·3710323	·0003369272
2969	.....	8814961	26171619209	54·4885309	14·3726461	·0003368137
2970	$2.3^3.5.11$	8820900	26198073000	54·4977063	14·3742596	·0003367003
2971	.....	8826841	26224544611	54·5068803	14·3758727	·0003365870
2972	$2^2.743$	8832784	26251034048	54·5160527	14·3774854	·0003364738
2973	3.991	8838729	26277541317	54·5252235	14·3790977	·0003363606
2974	2.1487	8844676	26304066424	54·5343928	14·3807097	·0003362475
2975	$5^2.7.17$	8850625	26330609375	54·5435606	14·3823214	·0003361345
2976	$2^5.3.31$	8856576	26357170176	54·5527268	14·3839327	·0003360215
2977	13.229	8862529	26383748833	54·5618915	14·3855436	·0003359086
2978	2.1489	8868484	26410345352	54·5710546	14·3871542	·0003357958
2979	$3^2.331$	8874441	26436959739	54·5802162	14·3887644	·0003356831
2980	$2^2.5.149$	8880400	26463592000	54·5893763	14·3903742	·0003355705
2981	11.271	8886361	26490242141	54·5985348	14·3919837	·0003354579
2982	2.3.7.71	8892324	26516910168	54·6076917	14·3935929	·0003353454
2983	19.157	8898289	26543596087	54·6168472	14·3952016	·0003352330
2984	$2^3.373$	8904256	26570299904	54·6260011	14·3968100	·0003351206
2985	3.5.199	8910225	26597021625	54·6351535	14·3984181	·0003350084
2986	2.1493	8916196	26623761256	54·6443043	14·4000258	·0003348962
2987	29.103	8922169	26650518803	54·6534537	14·4016331	·0003347841
2988	$2^2.3^2.83$	8928144	26677294272	54·6626015	14·4032400	·0003346720
2989	$7^2.61$	8934121	26704087669	54·6717477	14·4048466	·0003345601
2990	2.5.13.23	8940100	26730899000	54·6808924	14·4064529	·0003344482
2991	3.997	8946081	26757728271	54·6900356	14·4080588	·0003343363
2992	$2^4.11.17$	8952064	26784575488	54·6991773	14·4096643	·0003342246
2993	41.73	8958049	26811440657	54·7083175	14·4112695	·0003341129
2994	2.3.499	8964036	26838323784	54·7174561	14·4128743	·0003340013
2995	5.599	8970025	26865224875	54·7265932	14·4144788	·0003338898
2996	$2^2.7.107$	8976016	26892143936	54·7357287	14·4160829	·0003337784
2997	$3^4.37$	8982009	26919080973	54·7448628	14·4176867	·0003336670
2998	2.1499	8988004	26946035992	54·7539953	14·4192900	·0003335557
2999	.....	8994001	26973008999	54·7631263	14·4208931	·0003334445

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3000	$2^3.3.5^3$	9000000	27000000000	54·7722558	14·4224957	·0003333333
3001	.....	9006001	27027009001	54·7813837	14·4240981	·0003332223
3002	2,19.79	9012004	27054036008	54·7905101	14·4257000	·0003331113
3003	3.7.11.13	9018009	27081081027	54·7996350	14·4273017	·0003330003
3004	$2^2.751$	9024016	27108144064	54·8087584	14·4289029	·0003328895
3005	5.601	9030025	27135225125	54·8178803	14·4305038	·0003327787
3006	$2.3^2.167$	9036036	27162324216	54·8270007	14·4321044	·0003326680
3007	31.97	9042049	27189441343	54·8361195	14·4337045	·0003325574
3008	$2^6.47$	9048064	27216576512	54·8452368	14·4353044	·0003324468
3009	3.17.59	9054081	27243729729	54·8543526	14·4369038	·0003323363
3010	2.5.7.43	9060100	27270901000	54·8634669	14·4385029	·0003322259
3011	.....	9066121	27298090331	54·8725797	14·4401016	·0003321156
3012	$2^2.3.251$	9072144	27325297728	54·8816909	14·4417000	·0003320053
3013	23.131	9078169	27352523197	54·8908007	14·4432980	·0003318951
3014	2.11.137	9084196	27379766744	54·8999089	14·4448957	·0003317850
3015	$3^2.5.67$	9090225	27407028375	54·9090157	14·4464930	·0003316750
3016	$2^3.13.29$	9096256	27434308096	54·9181209	14·4480900	·0003315650
3017	7.431	9102289	27461605913	54·9272246	14·4496867	·0003314551
3018	2.3.503	9108324	27488921832	54·9363268	14·4512830	·0003313453
3019	.....	9114361	27516255859	54·9454275	14·4528790	·0003312355
3020	$2^2.5.151$	9120400	27543608000	54·9545267	14·4544746	·0003311258
3021	3.19.53	9126441	27570978261	54·9636243	14·4560698	·0003310162
3022	2.1511	9132484	27598366648	54·9727205	14·4576648	·0003309067
3023	.....	9138529	27625773167	54·9818152	14·4592593	·0003307972
3024	$2^4.3^3.7$	9144576	27653197824	54·9909083	14·4608536	·0003306878
3025	$5^2.11^2$	9150625	27680640625	55·0000000	14·4624474	·0003305785
3026	2.17.89	9156676	27708101576	55·0090902	14·4640409	·0003304693
3027	3.1009	9162729	27735580683	55·0181788	14·4656340	·0003303601
3028	$2^2.757$	9168784	27763077952	55·0272660	14·4672268	·0003302510
3029	13.233	9174841	27790593389	55·0363516	14·4688192	·0003301420
3030	2.3.5.101	9180900	27818127000	55·0454358	14·4704113	·0003300330
3031	7.433	9186961	27845678791	55·0545184	14·4720030	·0003299241
3032	$2^3.379$	9193024	27873248768	55·0635996	14·4735944	·0003298153
3033	$3^2.337$	9199089	27900836937	55·0726793	14·4751854	·0003297066
3034	2.37.41	9205156	27928443304	55·0817574	14·4767761	·0003295979
3035	5.607	9211225	27956067875	55·0908341	14·4783665	·0003294893
3036	$2^2.3.11.23$	9217296	27983710656	55·0999093	14·4799564	·0003293808
3037	.....	9223369	28011371653	55·1089829	14·4815461	·0003292723
3038	$2.7^2.31$	9229444	28039050872	55·1180551	14·4831354	·0003291639
3039	3.1013	9235521	28066748319	55·1271258	14·4847243	·0003290556
3040	$2^5.5.19$	9241600	28094464000	55·1361950	14·4863129	·0003289474
3041	.....	9247681	28122197921	55·1452627	14·4879012	·0003288392
3042	$2.3^2.13^2$	9253764	28149950088	55·1543289	14·4894891	·0003287311
3043	17.179	9259849	28177720507	55·1633937	14·4910766	·0003286231
3044	$2^2.761$	9265936	28205509184	55·1724569	14·4926638	·0003285151
3045	3.5.7.29	9272025	28233316125	55·1815186	14·4942507	·0003284072
3046	2.1523	9278116	28261141336	55·1905789	14·4958372	·0003282994
3047	11.277	9284209	28288984823	55·1996377	14·4974233	·0003281917
3048	$2^3.3.127$	9290304	28316846592	55·2086950	14·4990091	·0003280840
3049	.....	9296401	28344726649	55·2177508	14·5005946	·0003279764
3050	$2.5^2.61$	9302500	28372625000	55·2268051	14·5021797	·0003278689
3051	$3^3.113$	9308601	28400541651	55·2358579	14·5037644	·0003277614
3052	$2^2.7.109$	9314704	28428476608	55·2449093	14·5053489	·0003276540
3053	43.71	9320809	28456429877	55·2539591	14·5069329	·0003275467
3054	2.3.509	9326916	28484401464	55·2630075	14·5085167	·0003274394
3055	5.13.47	9333025	28512391375	55·2720544	14·5101000	·0003273322
3056	$2^4.191$	9339136	28540399616	55·2810998	14·5116830	·0003272251
3057	3.1019	9345249	28568426193	55·2901438	14·5132657	·0003271181
3058	2.11.139	9351364	28596471112	55·2991862	14·5148480	·0003270111
3059	7.19.23	9357481	28624534379	55·3082272	14·5164300	·0003269042

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3060	$2^2.3^2.5.17$	9363600	28652616000	55·3172667	14·5180117	·0003267974
3061	.....	9369721	28680715981	55·3263048	14·5199930	·0003266906
3062	2.1531	9375844	28708834328	55·3353413	14·5211739	·0003265839
3063	3.1021	9381969	28736971047	55·3443764	14·5227546	·0003264773
3064	$2^3.383$	9388096	28765126144	55·3534100	14·5243349	·0003263708
3065	5.613	9394225	28793299625	55·3624422	14·5259148	·0003262643
3066	2.3.7.73	9400356	28821491496	55·3714728	14·5274944	·0003261579
3067	.....	9406489	28849701765	55·3805020	14·5290736	·0003260515
3068	$2^2.13.59$	9412624	28877930432	55·3895297	14·5306525	·0003259452
3069	$3^2.11.31$	9418761	28906177509	55·3985559	14·5322310	·0003258390
3070	2.5.307	9424900	28934443000	55·4075807	14·5338092	·0003257329
3071	37.83	9431041	28962726911	55·4166040	14·5353871	·0003256268
3072	$2^{10}.3$	9437184	28991029248	55·4256258	14·5369646	·0003255208
3073	7.439	9443329	29019350017	55·4346462	14·5385418	·0003254149
3074	2.29.53	9449476	29047689224	55·4436651	14·5401187	·0003253090
3075	$3.5^2.41$	9455625	29076046875	55·4526825	14·5416952	·0003252033
3076	$2^2.769$	9461776	29104422976	55·4616985	14·5432714	·0003250975
3077	17.181	9467929	29132817533	55·4707130	14·5448472	·0003249919
3078	$2.3^4.19$	9474084	29161230552	55·4797260	14·5464227	·0003248863
3079	.....	9480241	29189662039	55·4887376	14·5479979	·0003247808
3080	$2^3.5.7.11$	9486400	29218112000	55·4977477	14·5495727	·0003246753
3081	3.13.79	9492561	29246580441	55·5067563	14·5511472	·0003245699
3082	2.23.67	9498724	29275067368	55·5157635	14·5527213	·0003244646
3083	.....	9504889	29303572787	55·5247692	14·5542951	·0003243594
3084	$2^2.3.257$	9511056	29332096704	55·5337735	14·5558685	·0003242542
3085	5.617	9517225	29360639125	55·5427763	14·5574416	·0003241491
3086	2.1543	9523396	29389200056	55·5517776	14·5590143	·0003240441
3087	$3^2.7^3$	9529569	29417779503	55·5607775	14·5605867	·0003239391
3088	$2^4.193$	9535744	29446377472	55·5697760	14·5621588	·0003238342
3089	.....	9541921	29474993969	55·5787729	14·5637306	·0003237294
3090	2.3.5.103	9548100	29503629000	55·5877684	14·5653020	·0003236246
3091	11.281	9554281	29532282571	55·5967625	14·5668731	·0003235199
3092	$2^2.773$	9560464	29560954688	55·6057551	14·5684438	·0003234153
3093	3.1031	9566649	29589645357	55·6147463	14·5700142	·0003233107
3094	2.7.13.17	9572836	29618354584	55·6237359	14·5715842	·0003232062
3095	5.619	9579025	29647082375	55·6327242	14·5731539	·0003231018
3096	$2^3.3^2.43$	9585216	29675828736	55·6417110	14·5747233	·0003229974
3097	19.163	9591409	29704593673	55·6506963	14·5762923	·0003228931
3098	2.1549	9597604	29733377192	55·6596802	14·5778610	·0003227889
3099	3.1033	9603801	29762179299	55·6686626	14·5794294	·0003226847
3100	$2^2.5^2.31$	9610000	29791000000	55·6776436	14·5809974	·0003225806
3101	7.443	9616201	29819839301	55·6866232	14·5825651	·0003224766
3102	2.3.11.47	9622404	29848697208	55·6956013	14·5841324	·0003223727
3103	29.107	9628609	29877573727	55·7045779	14·5856994	·0003222688
3104	$2^5.97$	9634816	29906468864	55·7135531	14·5872661	·0003221649
3105	$3^3.5.23$	9641025	29935382625	55·7225269	14·5888324	·0003220612
3106	2.1553	9647236	29964315016	55·7314992	14·5903984	·0003219575
3107	13.239	9653449	29993266043	55·7404701	14·5919641	·0003218539
3108	$2^2.3.7.37$	9659664	30022235712	55·7494395	14·5935294	·0003217503
3109	.....	9665881	30051224029	55·7584074	14·5950943	·0003216468
3110	2.5.311	9672100	30080231000	55·7673740	14·5966590	·0003215434
3111	3.17.61	9678321	30109256631	55·7763391	14·5982233	·0003214401
3112	$2^3.389$	9684544	30138300928	55·7853027	14·5997872	·0003213368
3113	11.283	9690769	30167363897	55·7942649	14·6013509	·0003212335
3114	$2.3^2.173$	9696996	30196445544	55·8032257	14·6029142	·0003211304
3115	5.7.89	9703225	30225545875	55·8121850	14·6044772	·0003210273
3116	$2^2.19.41$	9709456	30254664896	55·8211429	14·6060398	·0003209243
3117	3.1039	9715689	30283802613	55·8300994	14·6076021	·0003208213
3118	2.1559	9721924	30312959032	55·8390544	14·6091641	·0003207184
3119	.....	9728161	30342134159	55·8480080	14·6107258	·0003206156

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3120	$2^4.3.5.13$	9734400	30371328000	55·8569602	14·6122871	·0003205128
3121	.....	9740641	30400540561	55·8659109	14·6138481	·0003204101
3122	2.7.223	9746884	30429771848	55·8748602	14·6154088	·0003203075
3123	$3^2.347$	9753129	30459021867	55·8838080	14·6169691	·0003202049
3124	$2^2.11.71$	9759376	30488290624	55·8927545	14·6185291	·0003201024
3125	5^5	9765625	30517578125	55·9016995	14·6200887	·0003200000
3126	2.3.521	9771876	30546884376	55·9106430	14·6216480	·0003198976
3127	53.59	9778129	30576209383	55·9195851	14·6232070	·0003197953
3128	$2^3.17.23$	9784384	30600553152	55·9285258	14·6247657	·0003196931
3129	3.7.149	9790641	30634915689	55·9374651	14·6263240	·0003195909
3130	2.5.313	9796900	30664297000	55·9464029	14·6278819	·0003194888
3131	31.101	9803161	30693697091	55·9553393	14·6294396	·0003193868
3132	$2^2.3^3.29$	9809424	30723115968	55·9642743	14·6309969	·0003192848
3133	13.241	9815689	30752553637	55·9732079	14·6325539	·0003191829
3134	2.1567	9821956	30782010104	55·9821400	14·6341105	·0003190810
3135	3.5.11.19	9828225	30811485375	55·9910707	14·6356668	·0003189793
3136	$2^6.7^2$	9834496	30840979456	56·0000000	14·6372228	·0003188776
3137	.....	9840769	30870492353	56·0089279	14·6387785	·0003187759
3138	2.3.523	9847044	30900024072	56·0178543	14·6403338	·0003186743
3139	43.73	9853321	30929574619	56·0267793	14·6418888	·0003185728
3140	$2^2.5.157$	9859600	30959144000	56·0357029	14·6434435	·0003184713
3141	$3^2.349$	9865881	30988732221	56·0446251	14·6449978	·0003183699
3142	2.1571	9872164	31018339288	56·0535458	14·6465519	·0003182686
3143	7.449	9878449	31047965207	56·0624652	14·6481055	·0003181674
3144	$2^3.3.131$	9884736	31077609984	56·0713831	14·6496589	·0003180662
3145	5.17.37	9891025	31107273625	56·0802996	14·6512119	·0003179650
3146	$2.11^2.13$	9897316	31136956136	56·0892147	14·6527646	·0003178640
3147	3.1049	9903609	31166657523	56·0981283	14·6543170	·0003177629
3148	$2^2.787$	9909904	31196377792	56·1070406	14·6558690	·0003176620
3149	47.67	9916201	31226116949	56·1159514	14·6574207	·0003175611
3150	$2.3^2.5^2.7$	9922500	31255875000	56·1248608	14·6589721	·0003174603
3151	23.137	9928801	31285651951	56·1337688	14·6605231	·0003173596
3152	$2^4.197$	9935104	31315447808	56·1426754	14·6620739	·0003172589
3153	3.1051	9941409	31345262577	56·1515805	14·6636243	·0003171583
3154	2.19.83	9947716	31375096264	56·1604843	14·6651743	·0003170577
3155	5.631	9954025	31404948875	56·1693867	14·6667241	·0003169572
3156	$2^2.3.263$	9960336	31434820416	56·1782876	14·6682735	·0003168568
3157	7.11.41	9966649	31464710893	56·1871871	14·6698226	·0003167564
3158	2.1579	9972964	31494620312	56·1960853	14·6713713	·0003166561
3159	$3^5.13$	9979281	31524548679	56·2049820	14·6729197	·0003165559
3160	$2^3.5.79$	9985600	31554496000	56·2138773	14·6744678	·0003164557
3161	29.109	9991921	31584462281	56·2227712	14·6760157	·0003163556
3162	2.3.17.31	9998244	31614447528	56·2316637	14·6775631	·0003162555
3163	.....	10004569	31644451747	56·2405548	14·6791102	·0003161555
3164	$2^2.7.113$	10010896	31674474944	56·2494444	14·6806570	·0003160556
3165	3.5.211	10017225	31704517125	56·2583327	14·6822035	·0003159558
3166	2.1583	10023556	31734578296	56·2672196	14·6837497	·0003158560
3167	.....	10029889	31764658463	56·2761051	14·6852955	·0003157562
3168	$2^5.3^2.11$	10036224	31794757632	56·2849891	14·6868410	·0003156566
3169	.....	10042561	31824875809	56·2938718	14·6883861	·0003155570
3170	2.5.317	10048900	31855013000	56·3027531	14·6899309	·0003154574
3171	3.7.151	10055241	31885169211	56·3116329	14·6914755	·0003153579
3172	$2^2.13.61$	10061584	31915344448	56·3205114	14·6930196	·0003152585
3173	19.167	10067929	31945538717	56·3293884	14·6945635	·0003151592
3174	$2.3.23^2$	10074276	31975752024	56·3382641	14·6961071	·0003150599
3175	$5^2.127$	10080625	32005984375	56·3471384	14·6976503	·0003149606
3176	$2^3.397$	10086976	32036235776	56·3560112	14·6991932	·0003148615
3177	$3^2.353$	10093329	32066506233	56·3648827	14·7007358	·0003147624
3178	2.7.227	10099684	32096795752	56·3737528	14·7022780	·0003146633
3179	11.17^2	10106041	32127104339	56·3826214	14·7038199	·0003145643

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3180	$2^2.3.5.53$	10112400	32157432000	56·3914887	14·7053615	·0003144654
3181	.....	10118761	32187778741	56·4003546	14·7069028	·0003143666
3182	2.37.43	10125124	32218144568	56·4092191	14·7084438	·0003142678
3183	3.1061	10131489	32248529487	56·4180822	14·7099844	·0003141690
3184	$2^4.199$	10137856	32278933504	56·4269439	14·7115247	·0003140704
3185	$5.7^2.13$	10144225	32309356625	56·4358042	14·7130647	·0003139717
3186	$2.3^3.59$	10150596	32339798856	56·4446631	14·7146044	·0003138732
3187	.....	10156969	32370260203	56·4535207	14·7161437	·0003137747
3188	$2^2.797$	10163344	32400740672	56·4623769	14·7176827	·0003136763
3189	3.1063	10169721	32431240969	56·4712316	14·7192214	·0003135779
3190	2.5.11.29	10176100	32461759000	56·4800850	14·7207598	·0003134796
3191	.....	10182481	32492296871	56·4889370	14·7222979	·0003133814
3192	$2^3.3.7.19$	10188864	32522853888	56·4977876	14·7238356	·0003132832
3193	31.103	10195249	32553430057	56·5066368	14·7253730	·0003131851
3194	2.1597	10201636	32584025384	56·5154846	14·7269101	·0003130870
3195	$3^2.5.71$	10208025	32614639875	56·5243310	14·7284469	·0003129890
3196	$2^2.17.47$	10214416	32645273536	56·5331761	14·7299834	·0003128911
3197	23.139	10220809	32675926373	56·5420198	14·7315195	·0003127932
3198	2.3.13.41	10227204	32706598392	56·5508620	14·7330553	·0003126954
3199	7.457	10233601	32737289599	56·5597029	14·7345908	·0003125978
3200	$2^7.5^2$	10240000	32768000000	56·5685425	14·7361260	·0003125000
3201	3.11.97	10246401	32798729601	56·5773806	14·7376608	·0003124024
3202	2.1601	10252804	32829478408	56·5862174	14·7391954	·0003123048
3203	.....	10259209	32860246427	56·5950528	14·7407296	·0003122073
3204	$2^2.3^2.89$	10265616	32891033664	56·6038868	14·7422635	·0003121099
3205	5.641	10272025	32921840125	56·6127194	14·7437971	·0003120125
3206	2.7.229	10278436	32952665816	56·6215507	14·7453303	·0003119152
3207	3.1069	10284849	32983510743	56·6303805	14·7468633	·0003118179
3208	$2^3.401$	10291264	33014374912	56·6392090	14·7483959	·0003117207
3209	.....	10297681	33045258329	56·6480362	14·7499282	·0003116236
3210	2.3.5.107	10304100	33076161000	56·6568619	14·7514602	·0003115265
3211	$13^2.19$	10310521	33107082931	56·6656863	14·7529919	·0003114295
3212	$2^2.11.73$	10316944	33138024128	56·6745093	14·7545232	·0003113325
3213	$3^3.7.17$	10323369	33168984597	56·6833309	14·7560542	·0003112356
3214	2.1607	10329796	33199964344	56·6921511	14·7575849	·0003111388
3215	5.643	10336225	33230963375	56·7009700	14·7591153	·0003110420
3216	$2^4.3.67$	10342656	33261981696	56·7097875	14·7606454	·0003109453
3217	.....	10349089	33293019313	56·7186037	14·7621752	·0003108486
3218	2.1609	10355524	33324076232	56·7274184	14·7637046	·0003107520
3219	3.29.37	10361961	33355152459	56·7362318	14·7652338	·0003106555
3220	$2^2.5.7.23$	10368400	33386248000	56·7450438	14·7667626	·0003105590
3221	.....	10374841	33417362861	56·7538545	14·7682911	·0003104626
3222	$2.3^2.179$	10381284	33448497048	56·7626638	14·7698192	·0003103662
3223	11.293	10387729	33479650567	56·7714717	14·7713471	·0003102699
3224	$2^3.13.31$	10394176	33510823424	56·7802783	14·7728746	·0003101737
3225	$3.5^2.43$	10400625	33542015625	56·7890835	14·7744019	·0003100775
3226	2.1613	10407076	33573227176	56·7978873	14·7759288	·0003099814
3227	7.461	10413529	33604458083	56·8066897	14·7774554	·0003098853
3228	$2^2.3.269$	10419984	33635708352	56·8154908	14·7789817	·0003097893
3229	.....	10426441	33666977989	56·8242906	14·7805076	·0003096934
3230	2.5.17.19	10432900	33698267000	56·8330889	14·7820333	·0003095975
3231	$3^2.359$	10439361	33729575391	56·8418860	14·7835586	·0003095017
3232	$2^5.101$	10445824	33760903168	56·8506816	14·7850836	·0003094059
3233	53.61	10452289	33792250337	56·8594759	14·7866083	·0003093102
3234	$2.3.7^2.11$	10458756	33823616904	56·8682688	14·7881327	·0003092146
3235	5.647	10465225	33855002875	56·8770604	14·7896568	·0003091190
3236	$2^2.809$	10471696	33886408256	56·8858506	14·7911805	·0003090235
3237	3.13.83	10478169	33917833053	56·8946395	14·7927040	·0003089280
3238	2.1619	10484644	33949277272	56·9034270	14·7942272	·0003088326
3239	41.79	10491121	33980740919	56·9122131	14·7957500	·0003087373

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3240	$2^3.3^4.5$	10497600	34012224000	56·9209979	14·7972725	·0003086420
3241	7.463	10504081	34043726521	56·9297813	14·7987947	·0003085467
3242	2.1621	10510564	34075248488	56·9385634	14·8003166	·0003084516
3243	3.23.47	10517049	34106789907	56·9473441	14·8018381	·0003083565
3244	$2^2.811$	10523536	34138350784	56·9561235	14·8033594	·0003082614
3245	5.11.59	10530025	34169931125	56·9649015	14·8048803	·0003081664
3246	2.3.541	10536516	34201530936	56·9736781	14·8064010	·0003080715
3247	17.191	10543009	34233150223	56·9824534	14·8079213	·0003079766
3248	$2^4.7.29$	10549504	34264788992	56·9912274	14·8094413	·0003078818
3249	$3^2.19^2$	10556001	34296447249	57·0000000	14·8109610	·0003077870
3250	$2.5^3.13$	10562500	34328125000	57·0087713	14·8124803	·0003076923
3251	.....	10569001	34359822251	57·0175412	14·8139994	·0003075977
3252	$2^2.3.271$	10575504	34391539008	57·0263097	14·8155181	·0003075031
3253	.....	10582009	34423275277	57·0350769	14·8170366	·0003074085
3254	2.1627	10588516	34455031064	57·0438428	14·8185547	·0003073141
3255	3.5.7.31	10595025	34486806375	57·0526073	14·8200725	·0003072197
3256	$2^3.11.37$	10601536	34518601216	57·0613705	14·8215901	·0003071253
3257	.....	10608049	34550415593	57·0701323	14·8231073	·0003070310
3258	$2.3^2.181$	10614564	34582249512	57·0788928	14·8246242	·0003069368
3259	.....	10621081	34614102979	57·0876519	14·8261408	·0003068426
3260	$2^2.5.163$	10627600	34645976000	57·0964097	14·8276570	·0003067485
3261	3.1087	10634121	34677868581	57·1051661	14·8291730	·0003066544
3262	2.7.233	10640644	34709780728	57·1139212	14·8306887	·0003065604
3263	13.251	10647169	34741712447	57·1226750	14·8322040	·0003064664
3264	$2^6.3.17$	10653696	34773663744	57·1314274	14·8337191	·0003063725
3265	5.653	10660225	34805634625	57·1401785	14·8352338	·0003062787
3266	2.23.71	10666756	34837625096	57·1489282	14·8367483	·0003061849
3267	$3^3.11^2$	10673289	34869635163	57·1576766	14·8382624	·0003060912
3268	$2^2.19.43$	10679824	34901664832	57·1664237	14·8397762	·0003059976
3269	7.467	10686361	34933714109	57·1751694	14·8412897	·0003059039
3270	2.3.5.109	10692900	34965783000	57·1839138	14·8428029	·0003058104
3271	.....	10699441	34997871511	57·1926569	14·8443158	·0003057169
3272	$2^3.409$	10705984	35029979648	57·2013986	14·8458283	·0003056235
3273	3.1091	10712529	35062107417	57·2101390	14·8473406	·0003055301
3274	2.1637	10719076	35094254824	57·2188780	14·8488526	·0003054368
3275	$5^2.131$	10725625	35126421875	57·2276157	14·8503642	·0003053435
3276	$2^2.3^2.7.13$	10732176	35158608576	57·2363521	14·8518755	·0003052503
3277	29.113	10738729	35190814933	57·2450871	14·8533865	·0003051572
3278	2.11.149	10745284	35223040952	57·2538208	14·8548973	·0003050641
3279	3.1093	10751841	35255286639	57·2625532	14·8564077	·0003049710
3280	$2^4.5.41$	10758400	35287552000	57·2712843	14·8579177	·0003048780
3281	17.193	10764961	35319837041	57·2800140	14·8594275	·0003047851
3282	2.3.547	10771524	35352141768	57·2887424	14·8609371	·0003046923
3283	$7^2.67$	10778089	35384466187	57·2974694	14·8624463	·0003045995
3284	$2^2.821$	10784656	35416810304	57·3061951	14·8639551	·0003045067
3285	$3^2.5.73$	10791225	35449174125	57·3149195	14·8654637	·0003044140
3286	2.31.53	10797796	35481557656	57·3236426	14·8669719	·0003043214
3287	19.173	10804369	35513960903	57·3323643	14·8684799	·0003042288
3288	$2^3.3.137$	10810944	35546383872	57·3410847	14·8699875	·0003041363
3289	11.13.23	10817521	35578826569	57·3498038	14·8714949	·0003040438
3290	2.5.7.47	10824100	35611289000	57·3585216	14·8730019	·0003039514
3291	3.1097	10830681	35643771171	57·3672380	14·8745087	·0003038590
3292	$2^2.823$	10837264	35676273088	57·3759532	14·8760151	·0003037667
3293	37.89	10843849	35708794757	57·3846669	14·8775212	·0003036745
3294	$2.3^3.61$	10850436	35741336184	57·3933794	14·8790270	·0003035823
3295	5.659	10857025	35773897375	57·4020906	14·8805325	·0003034901
3296	$2^5.103$	10863616	35806478336	57·4108004	14·8820377	·0003033981
3297	3.7.157	10870209	35839079073	57·4195089	14·8835426	·0003033060
3298	2 17.97	10876804	35871699592	57·4282161	14·8850472	·0003032141
3299	.....	10883401	35904339899	57·4369219	14·8865515	·0003031222

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3300	$2^2.3.5^2.11$	10890000	35937000000	57·4456265	14·8880555	·0003030303
3301	.....	10896601	35969679901	57·4543297	14·8895592	·0003029385
3302	2.13.127	10903204	36002379608	57·4630316	14·8910626	·0003028468
3303	$3^2.367$	10909809	36035099127	57·4717322	14·8925657	·0003027551
3304	$2^3.7.59$	10916416	36067838464	57·4804315	14·8940685	·0003026634
3305	5.661	10923025	36100597625	57·4891294	14·8955709	·0003025719
3306	2.3.19.29	10929636	36133376616	57·4978261	14·8970731	·0003024803
3307	.....	10936249	36166175443	57·5065214	14·8985750	·0003023889
3308	$2^2.827$	10942864	36198994112	57·5152154	14·9000765	·0003022975
3309	3.1103	10949481	36231832629	57·5239081	14·9015778	·0003022061
3310	2.5.331	10956100	36264691000	57·5325995	14·9030788	·0003021148
3311	7.11.43	10962721	36297569231	57·5412895	14·9045795	·0003020236
3312	$2^4.3^2.23$	10969344	36330467328	57·5499783	14·9060798	·0003019324
3313	.....	10975969	36363385297	57·5586657	14·9075799	·0003018412
3314	2.1657	10982596	36396323144	57·5673519	14·9090796	·0003017502
3315	3.5.13.17	10989225	36429280875	57·5760367	14·9105791	·0003016591
3316	$2^2.829$	10995856	36462258496	57·5847202	14·9120782	·0003015682
3317	31.107	11002489	36495256013	57·5934024	14·9135771	·0003014772
3318	2.3.7.79	11009124	36528273432	57·6020833	14·9150756	·0003013864
3319	.....	11015761	36561310759	57·6107629	14·9165739	·0003012956
3320	$2^3.5.83$	11022400	36594368000	57·6194412	14·9180718	·0003012048
3321	$3^4.41$	11029041	36627445161	57·6281181	14·9195695	·0003011141
3322	2.11.151	11035684	36660542248	57·6367938	14·9210668	·0003010235
3323	.....	11042329	36693659267	57·6454681	14·9225639	·0003009329
3324	$2^2.3.277$	11048976	36726796224	57·6541412	14·9240606	·0003008424
3325	$5^2.7.19$	11055625	36759953125	57·6628130	14·9255571	·0003007519
3326	2.1663	11062276	36793129976	57·6714834	14·9270532	·0003006615
3327	3.1109	11068929	36826326783	57·6801525	14·9285491	·0003005711
3328	$2^6.13$	11075584	36859543552	57·6888204	14·9300446	·0003004808
3329	.....	11082241	36892780289	57·6974869	14·9315399	·0003003905
3330	$2.3^2.5.37$	11088900	36926037000	57·7061522	14·9330348	·0003003003
3331	.....	11095561	36959313691	57·7148161	14·9345295	·0003002101
3332	$2^2.7^2.17$	11102224	36992610368	57·7234788	14·9360238	·0003001200
3333	3.11.101	11108889	37025927037	57·7321401	14·9375179	·0003000300
3334	2.1667	11115556	37059263704	57·7408001	14·9390116	·0002999400
3335	5.23.29	11122225	37092620375	57·7494588	14·9405051	·0002998501
3336	$2^3.3.139$	11128896	37125997056	57·7581163	14·9419983	·0002997602
3337	47.71	11135569	37159393753	57·7667725	14·9434911	·0002996704
3338	2.1669	11142244	37192810472	57·7754273	14·9449837	·0002995806
3339	$3^2.7.53$	11148921	37226247219	57·7840809	14·9464760	·0002994909
3340	$2^2.5.167$	11155600	37259704000	57·7927331	14·9479677	·0002994012
3341	13.257	11162281	37293180821	57·8013841	14·9494596	·0002993116
3342	2.3.557	11168964	37326677688	57·8100337	14·9509510	·0002992220
3343	.....	11175649	37360194607	57·8186821	14·9524421	·0002991325
3344	$2^4.11.19$	11182336	37393731584	57·8273292	14·9539328	·0002990431
3345	3.5.223	11189025	37427288625	57·8359749	14·9554233	·0002989537
3346	2.7.239	11195716	37460865736	57·8446195	14·9569135	·0002988643
3347	.....	11202409	37494462923	57·8532627	14·9584034	·0002987750
3348	$2^2.3^3.31$	11209104	37528080192	57·8619046	14·9598930	·0002986858
3349	17.197	11215801	37561717549	57·8705452	14·9613823	·0002985936
3350	$2.5^2.67$	11222500	37595375000	57·8791845	14·9628712	·0002985075
3351	3.1117	11229201	37629052551	57·8878225	14·9643599	·0002984184
3352	$2^3.419$	11235904	37662750208	57·8964593	14·9658483	·0002983294
3353	7.479	11242609	37696467977	57·9050948	14·9673364	·0002982404
3354	2.3.13.43	11249316	37730205864	57·9137289	14·9688242	·0002981515
3355	5.11.61	11256025	37763963875	57·9223618	14·9703117	·0002980626
3356	$2^2.839$	11262736	37797742016	57·9309934	14·9717989	·0002979738
3357	$3^2.373$	11269449	37831540293	57·9396238	14·9732859	·0002978850
3358	2.23.73	11276164	37865358712	57·9482528	14·9747725	·0002977963
3359	.....	11282881	37899197279	57·9568805	14·9762588	·0002977077

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3360	$2^5.3.5.7$	11289600	37933056000	57·9655070	14·9777448	·0002976190
3361	.....	11296321	37966934881	57·9741322	14·9792305	·0002975305
3362	2.41^2	11303044	38000833928	57·9827560	14·9807159	·0002974420
3363	3.19.59	11309769	38034753147	57·9913787	14·9822011	·0002973536
3364	$2^2.29^2$	11316496	38068692544	58·0000000	14·9836859	·0002972652
3365	5.673	11323225	38102652125	58·0086200	14·9851705	·0002971768
3366	$2.3^2.11.17$	11329956	38136631896	58·0172388	14·9866548	·0002970885
3367	7.13.37	11336689	38170631863	58·0258563	14·9881388	·0002970003
3368	$2^3.421$	11343424	38204652032	58·0344725	14·9896225	·0002969121
3369	3.1123	11350161	38238692409	58·0430874	14·9911059	·0002968240
3370	2.5.337	11356900	38272753000	58·0517011	14·9925889	·0002967359
3371	.....	11363641	38306833811	58·0603135	14·9940717	·0002966479
3372	$2^2.3.281$	11370384	38340934848	58·0689246	14·9955542	·0002965599
3373	.....	11377129	38375056117	58·0775344	14·9970364	·0002964720
3374	2.7.241	11383876	38409197624	58·0861429	14·9985183	·0002963841
3375	$3^3.5^3$	11390625	38443359375	58·0947502	15·0000000	·0002962963
3376	$2^4.211$	11397376	38477541376	58·1033562	15·0014813	·0002962085
3377	11.307	11404129	38511743633	58·1119609	15·0029623	·0002961208
3378	2.3.563	11410884	38545966152	58·1205643	15·0044431	·0002960332
3379	31.109	11417641	38580208939	58·1291665	15·0059235	·0002959455
3380	$2^2.5.13^2$	11424400	38614472000	58·1377674	15·0074037	·0002958580
3381	$3.7^2.23$	11431161	38648755341	58·1463670	15·0088836	·0002957705
3382	2.19.89	11437924	38683058968	58·1549654	15·0103632	·0002956830
3383	17.199	11444689	38717382887	58·1635625	15·0118425	·0002955956
3384	$2^3.3^2.47$	11451456	38751727104	58·1721583	15·0133215	·0002955083
3385	5.677	11458225	38786091625	58·1807528	15·0148002	·0002954210
3386	2.1693	11464996	38820476456	58·1893461	15·0162786	·0002953337
3387	3.1129	11471769	38854881603	58·1979381	15·0177567	·0002952465
3388	$2^2.7.11^2$	11478544	38889307072	58·2065288	15·0192346	·0002951594
3389	.....	11485321	38923752869	58·2151183	15·0207121	·0002950723
3390	2.3.5.113	11492100	38958219000	58·2237065	15·0221894	·0002949853
3391	.....	11498881	38992705471	58·2322934	15·0236663	·0002948983
3392	$2^6.53$	11505664	39027212288	58·2408791	15·0251430	·0002948113
3393	$3^2.13.29$	11512449	39061739457	58·2494635	15·0266194	·0002947244
3394	2.1697	11519236	39096286984	58·2580466	15·0280955	·0002946376
3395	5.7.97	11526025	39130854875	58·2666285	15·0295713	·0002945508
3396	$2^2.3.283$	11532816	39165443136	58·2752091	15·0310468	·0002944641
3397	43.79	11539609	39200051773	58·2837885	15·0325221	·0002943774
3398	2.1699	11546404	39234680792	58·2923666	15·0339970	·0002942908
3399	3.11.103	11553201	39269330199	58·3009434	15·0354716	·0002942042
3400	$2^3.5^2.17$	11560000	39304000000	58·3095189	15·0369460	·0002941176
3401	19.179	11566801	39338690201	58·3180932	15·0384201	·0002940312
3402	$2.3^5.7$	11573604	39373400808	58·3266663	15·0398938	·0002939447
3403	41.83	11580409	39408131827	58·3352381	15·0413673	·0002938584
3404	$2^2.23.37$	11587216	39442883264	58·3438086	15·0428405	·0002937720
3405	3.5.227	11594025	39477655125	58·3523778	15·0443134	·0002936858
3406	2.13.131	11600836	39512447416	58·3609458	15·0457861	·0002935995
3407	.....	11607649	39547260143	58·3695126	15·0472584	·0002935134
3408	$2^4.3.71$	11614464	39582093312	58·3780781	15·0487304	·0002934272
3409	7.487	11621281	39616946929	58·3866423	15·0502022	·0002933412
3410	2.5.11.31	11628100	39651821000	58·3952053	15·0516737	·0002932551
3411	$3^2.379$	11634921	39686715531	58·4037670	15·0531449	·0002931692
3412	$2^2.853$	11641744	39721630528	58·4123275	15·0546157	·0002930832
3413	.....	11648569	39756565997	58·4208867	15·0560863	·0002929974
3414	2.3.569	11655396	39791521944	58·4294446	15·0575567	·0002929115
3415	5.683	11662225	39826498375	58·4380013	15·0590267	·0002928258
3416	$2^3.7.61$	11669066	39861495296	58·4465568	15·0604964	·0002927400
3417	3.17.67	11675889	39896512713	58·4551110	15·0619659	·0002926544
3418	2.1709	11682724	39931550632	58·4636639	15·0634351	·0002925688
3419	13.263	11689561	39966609059	58·4722156	15·0649039	·0002924832

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3420	$2^2.3^2.5.19$	11696400	40001688000	58·4807660	15·0663726	·0002923977
3421	11.311	11703241	40036787461	58·4893153	15·0678409	·0002923122
3422	2.29.59	11710084	40071907448	58·4978632	15·0693089	·0002922268
3423	3.7.163	11716929	40107047967	58·5064099	15·0707766	·0002921414
3424	$2^5.107$	11723776	40142209024	58·5149554	15·0722441	·0002920561
3425	$5^2.137$	11730625	40177390625	58·5234996	15·0737113	·0002919708
3426	2.3.571	11737476	40212592776	58·5320425	15·0751782	·0002918856
3427	23.149	11744329	40247815483	58·5405842	15·0766448	·0002918004
3428	$2^2.857$	11751184	40283058752	58·5491247	15·0781111	·0002917153
3429	$3^3.127$	11758041	40318322589	58·5576639	15·0795771	·0002916302
3430	$2.5.7^3$	11764900	40353607000	58·5662019	15·0810428	·0002915452
3431	47.73	11771761	40388911991	58·5747386	15·0825083	·0002914602
3432	$2^3.3.11.13$	11778624	40424237568	58·5832741	15·0839735	·0002913753
3433	.....	11785489	40459583737	58·5918083	15·0854383	·0002912904
3434	2.17.101	11792356	40494950504	58·6003413	15·0869029	·0002912056
3435	3.5.229	11799225	40530337875	58·6088730	15·0883672	·0002911208
3436	$2^2.859$	11806096	40565745856	58·6174036	15·0898313	·0002910361
3437	7.491	11812969	40601174453	58·6259328	15·0912950	·0002909514
3438	$2.3^2.191$	11819844	40636623672	58·6344609	15·0927585	·0002908668
3439	19.181	11826721	40672093519	58·6429876	15·0942217	·0002907822
3440	$2^4.5.43$	11833600	40707584000	58·6515132	15·0956846	·0002906977
3441	3.31.37	11840481	40743095121	58·6600375	15·0971472	·0002906132
3442	2.1721	11847364	40778626888	58·6685606	15·0986095	·0002905288
3443	11.313	11854249	40814179307	58·6770824	15·1000716	·0002904444
3444	$2^2.3.7.41$	11861136	40849752384	58·6856030	15·1015334	·0002903600
3445	5.13.53	11868025	40885346125	58·6941224	15·1029949	·0002902758
3446	2.1723	11874916	40920960536	58·7026405	15·1044561	·0002901915
3447	$3^2.383$	11881809	40956595623	58·7111574	15·1059170	·0002901073
3448	$2^3.431$	11888704	40992251392	58·7196730	15·1073776	·0002900232
3449	.....	11895601	41027927849	58·7281874	15·1088380	·0002899391
3450	$2.3.5^2.23$	11902500	41063625000	58·7367006	15·1102980	·0002898551
3451	7.17.29	11909401	41099342851	58·7452126	15·1117578	·0002897711
3452	$2^2.863$	11916304	41135081408	58·7537233	15·1132173	·0002896871
3453	3.1151	11923209	41170840677	58·7622328	15·1146766	·0002896032
3454	2.11.157	11930116	41206620664	58·7707410	15·1161355	·0002895194
3455	5.691	11937025	41242421375	58·7792480	15·1175942	·0002894356
3456	$2^7.3^3$	11943936	41278242816	58·7877538	15·1190526	·0002893519
3457	.....	11950849	41314084993	58·7962584	15·1205107	·0002892682
3458	2.7.13.19	11957764	41349947912	58·8047617	15·1219685	·0002891845
3459	3.1153	11964681	41385831579	58·8132638	15·1234261	·0002891009
3460	$2^2.5.173$	11971600	41421736000	58·8217647	15·1248833	·0002890173
3461	.....	11978521	41457661181	58·8302643	15·1263403	·0002889338
3462	2.3.577	11985444	41493607128	58·8387627	15·1277970	·0002888504
3463	.....	11992369	41529573847	58·8472599	15·1292534	·0002887670
3464	$2^3.433$	11999296	41565561344	58·8557559	15·1307096	·0002886836
3465	$3^2.5.7.11$	12006225	41601569625	58·8642506	15·1321654	·0002886003
3466	2.1733	12013156	41637598696	58·8727441	15·1336210	·0002885170
3467	.....	12020089	41673648563	58·8812364	15·1350763	·0002884338
3468	$2^2.3.17^2$	12027024	41709719232	58·8897275	15·1365313	·0002883506
3469	.....	12033961	41745810709	58·8982173	15·1379860	·0002882675
3470	2.5.347	12040900	41781923000	58·9067059	15·1394405	·0002881844
3471	3.13.89	12047841	41818056111	58·9151933	15·1408947	·0002881014
3472	$2^4.7.31$	12054784	41854210048	58·9236795	15·1423486	·0002880184
3473	23.151	12061729	41890384817	58·9321644	15·1438022	·0002879355
3474	$2.3^2.193$	12068676	41926580424	58·9406481	15·1452555	·0002878526
3475	$5^2.139$	12075625	41962796875	58·9491306	15·1467086	·0002877698
3476	$2^2.11.79$	12082576	41999034176	58·9576119	15·1481614	·0002876870
3477	3.19.61	12089529	42035292333	58·9660920	15·1496139	·0002876043
3478	2.37.47	12096484	42071571352	58·9745708	15·1510661	·0002875216
3479	$7^2.71$	12103441	42107871239	58·9830484	15·1525181	·0002874389

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3480	$2^3.3.5.29$	12110400	42144192000	58·9915248	15·1539698	·0002873563
3481	59^2	12117361	42180533641	59·0000000	15·1554212	·0002872738
3482	2.1741	12124324	42216896168	59·0084740	15·1568723	·0002871913
3483	$3^4.43$	12131289	42253279587	59·0169467	15·1583231	·0002871088
3484	$2^2.13.67$	12138256	42289683904	59·0254183	15·1597736	·0002870264
3485	5.17.41	12145225	42326109125	59·0338886	15·1612239	·0002869440
3486	2.3.7.83	12152196	42362555256	59·0423577	15·1626739	·0002868617
3487	11.317	12159169	42399022303	59·0508256	15·1641236	·0002867795
3488	$2^5.109$	12166144	42435510272	59·0592922	15·1655730	·0002866972
3489	3.1163	12173121	42472019169	59·0677577	15·1670222	·0002866151
3490	2.5.349	12180100	42508549000	59·0762220	15·1684711	·0002865330
3491	.....	12187081	42545099771	59·0846850	15·1699197	·0002864509
3492	$2^2.3^2.97$	12194064	42581671488	59·0931468	15·1713681	·0002863688
3493	7.499	12201049	42618264157	59·1016074	15·1728161	·0002862869
3494	2.1747	12208036	42654877784	59·1100668	15·1742639	·0002862049
3495	3.5.233	12215025	42691512375	59·1185250	15·1757114	·0002861230
3496	2^3 19.23	12222016	42728167936	59·1269820	15·1771587	·0002860412
3497	13.269	12229009	42764844473	59·1354378	15·1786057	·0002859594
3498	2.3.11.53	12236004	42801541992	59·1438923	15·1800524	·0002858776
3499	.....	12243001	42838260499	59·1523457	15·1814988	·0002857959
3500	$2^2.5^3.7$	12250000	42875000000	59·1607978	15·1829449	·0002857143
3501	$3^2.389$	12257001	42911760501	59·1692488	15·1843908	·0002856327
3502	2.17.103	12264004	42948542008	59·1776985	15·1858364	·0002855511
3503	31.113	12271009	42985344527	59·1861470	15·1872817	·0002854696
3504	$2^4.3.73$	12278016	43022168064	59·1945943	15·1887267	·0002853881
3505	5.701	12285025	43059012625	59·2030405	15·1901714	·0002853067
3506	2.1753	12292036	43095878216	59·2114854	15·1916159	·0002852253
3507	3.7.167	12299049	43132764843	59·2199290	15·1930601	·0002851440
3508	$2^2.877$	12306064	43169672512	59·2283716	15·1945040	·0002850627
3509	$11^2.29$	12313081	43206601229	59·2368129	15·1959477	·0002849815
3510	$2.3^3.5.13$	12320100	43243551000	59·2452530	15·1973911	·0002849003
3511	.....	12327121	43280521831	59·2536919	15·1988342	·0002848191
3512	$2^3.439$	12334144	43317513728	59·2621296	15·2002770	·0002847380
3513	3.1171	12341169	43354526697	59·2705661	15·2017196	·0002846570
3514	2.7.251	12348196	43391560744	59·2790013	15·2031618	·0002845760
3515	5.19.37	12355225	43428615875	59·2874354	15·2046038	·0002844950
3516	$2^2.3.293$	12362256	43465692096	59·2958683	15·2060456	·0002844141
3517	.....	12369289	43502789413	59·3043000	15·2074871	·0002843332
3518	2.1759	12376324	43539907832	59·3127305	15·2089283	·0002842524
3519	$3^2.17.23$	12383361	43577047359	59·3211598	15·2103692	·0002841716
3520	$2^6.5.11$	12390400	43614208000	59·3295879	15·2118098	·0002840909
3521	7.503	12397441	43651389761	59·3380148	15·2132502	·0002840102
3522	2.3.587	12404484	43688592648	59·3464405	15·2146903	·0002839296
3523	13.271	12411529	43725816667	59·3548650	15·2161301	·0002838490
3524	$2^2.881$	12418576	43763061824	59·3632883	15·2175697	·0002837684
3525	$3.5^2.47$	12425625	43800328125	59·3717104	15·2190089	·0002836879
3526	2.41.43	12432676	43837615576	59·3801314	15·2204479	·0002836075
3527	.....	12439729	43874924183	59·3885511	15·2218867	·0002835271
3528	$2^3.3^2.7^2$	12446784	43912253952	59·3969696	15·2233252	·0002834467
3529	.....	12453841	43949604889	59·4053870	15·2247634	·0002833664
3530	2.5.353	12460900	43986977000	59·4138031	15·2262013	·0002832861
3531	3.11.107	12467961	44024370291	59·4222181	15·2276390	·0002832059
3532	$2^2.883$	12475024	44061784768	59·4306318	15·2290764	·0002831257
3533	.....	12482089	44099220437	59·4390444	15·2305135	·0002830456
3534	2.3.19.31	12489156	44136677304	59·4474558	15·2319503	·0002829655
3535	5.7.101	12496225	44174155375	59·4558660	15·2333869	·0002828854
3536	$2^4.13.17$	12503296	44211654656	59·4642750	15·2348232	·0002828054
3537	$3^3.131$	12510369	44249175153	59·4726828	15·2362593	·0002827255
3538	2.29.61	12517444	44286716872	59·4810894	15·2376950	·0002826456
3539	.....	12524521	44324279819	59·4894949	15·2391305	·0002825657

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3540	$2^2.3.5.59$	12531600	44361864000	59·4978991	15·2405657	·0002824859
3541	.....	12538681	44399469421	59·5063022	15·2420006	·0002824061
3542	2.7.11.23	12545764	44437096088	59·5147041	15·2434353	·0002823264
3543	3.1181	12552849	44474744007	59·5231047	15·2448697	·0002822467
3544	$2^3.443$	12559936	44512413184	59·5315043	15·2463039	·0002821670
3545	5.709	12567025	44550103625	59·5399026	15·2477377	·0002820874
3546	$2.3^2.197$	12574116	44587815336	59·5482997	15·2491714	·0002820079
3547	.....	12581209	44625548323	59·5566957	15·2506047	·0002819284
3548	$2^2.887$	12588304	44663302592	59·5650904	15·2520378	·0002818489
3549	$3.7.13^2$	12595401	44701078149	59·5734840	15·2534706	·0002817695
3550	$2.5^2.71$	12602500	44738875000	59·5818764	15·2549031	·0002816901
3551	53.67	12609601	44776693151	59·5902676	15·2563354	·0002816108
3552	$2^5.3.37$	12616704	44814532608	59·5986577	15·2577673	·0002815315
3553	11.17.19	12623809	44852393377	59·6070466	15·2591991	·0002814523
3554	2.1777	12630916	44890275464	59·6154342	15·2606305	·0002813731
3555	$3^2.5.79$	12638025	44928178875	59·6238207	15·2620617	·0002812940
3556	$2^2.7.127$	12645136	44966103616	59·6322061	15·2634926	·0002812148
3557	.....	12652249	45004049693	59·6405902	15·2649232	·0002811358
3558	2.3.593	12659364	45042017112	59·6489732	15·2663536	·0002810568
3559	.....	12666481	45080005879	59·6573549	15·2677836	·0002809778
3560	$2^3.5.89$	12673600	45118016000	59·6657356	15·2692135	·0002808989
3561	3.1187	12680721	45156047481	59·6741150	15·2706431	·0002808200
3562	2.13.137	12687844	45194100328	59·6824932	15·2720724	·0002807412
3563	7.509	12694969	45232174547	59·6908703	15·2735014	·0002806624
3564	$2^2.3^4.11$	12702096	45270270144	59·6992462	15·2749302	·0002805836
3565	5.23.31	12709225	45308387125	59·7076210	15·2763587	·0002805049
3566	2.1783	12716356	45346525496	59·7159945	15·2777869	·0002804262
3567	3.29.41	12723489	45384685263	59·7243669	15·2792149	·0002803476
3568	$2^4.223$	12730624	45422866432	59·7327381	15·2806425	·0002802691
3569	43.83	12737761	45461069009	59·7411081	15·2820700	·0002801905
3570	2.3.5.7.17	12744900	45499293000	59·7494770	15·2834972	·0002801120
3571	.....	12752041	45537538411	59·7578447	15·2849241	·0002800336
3572	$2^2.19.47$	12759184	45575805248	59·7662112	15·2863507	·0002799552
3573	$3^2.397$	12766329	45614093517	59·7745765	15·2877770	·0002798769
3574	2.1787	12773476	45652403224	59·7829407	15·2892031	·0002797985
3575	$5^2.11.13$	12780625	45690734375	59·7913037	15·2906290	·0002797203
3576	$2^3.3.149$	12787776	45729086976	59·7996656	15·2920545	·0002796421
3577	$7^2.73$	12794929	45767461033	59·8080262	15·2934798	·0002795639
3578	2.1789	12802084	45805856552	59·8163857	15·2949049	·0002794857
3579	3.1193	12809241	45844273539	59·8247441	15·2963296	·0002794077
3580	$2^2.5.79$	12816400	45882712000	59·8331012	15·2977541	·0002793296
3581	.....	12823561	45921171941	59·8414572	15·2991784	·0002792516
3582	$2.3^2.199$	12830724	45959653368	59·8498120	15·3006024	·0002791736
3583	.....	12837889	45998156287	59·8581657	15·3020261	·0002790957
3584	$2^9.7$	12845056	46036680704	59·8665182	15·3034495	·0002790179
3585	3.5.239	12852225	46075226625	59·8748695	15·3048726	·0002789400
3586	2.11.163	12859396	46113794056	59·8832197	15·3062955	·0002788622
3587	17.211	12866569	46152383003	59·8915687	15·3077182	·0002787845
3588	$2^2.3.13.23$	12873744	46190993472	59·8999165	15·3091406	·0002787068
3589	37.97	12880921	46229625469	59·9082632	15·3105627	·0002786291
3590	2.5.359	12888100	46268279900	59·9166087	15·3119846	·0002785515
3591	$3^3.7.19$	12895281	46306954071	59·9249531	15·3134062	·0002784740
3592	$2^3.449$	12902464	46345650688	59·9332963	15·3148275	·0002783964
3593	.....	12909649	46384368857	59·9416383	15·3162486	·0002783190
3594	2.3.599	12916836	46423108584	59·9499792	15·3176694	·0002782415
3595	5.719	12924025	46461869875	59·9583189	15·3190899	·0002781641
3596	$2^2.29.31$	12931216	46500652736	59·9666574	15·3205102	·0002780868
3597	3.11.109	12938409	46539457173	59·9749948	15·3219302	·0002780095
3598	2.7.257	12945604	46578283192	59·9833310	15·3233499	·0002779322
3599	59.61	12952801	46617130799	59·9916661	15·3247694	·0002778550

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3600	$2^4.3^2.5^2$	12960000	46656000000	60·0000000	15·3261887	·0002777778
3601	13.277	12967201	46694890801	60·0083328	15·3276076	·0002777006
3602	2.1801	12974404	46733803208	60·0166643	15·3290263	·0002776235
3603	3.1201	12981609	46772737227	60·0249948	15·3304447	·0002775465
3604	$2^2.17.53$	12988816	46811692864	60·0333241	15·3318628	·0002774695
3605	5.7.103	12996025	46850670125	60·0416522	15·3332807	·0002773925
3606	2.3.601	13003236	46889669016	60·0499792	15·3346984	·0002773156
3607	.....	13010449	46928689543	60·0583050	15·3361158	·0002772387
3608	$2^3.11.41$	13017664	46967731712	60·0666297	15·3375329	·0002771619
3609	$3^2.401$	13024881	47006795529	60·0749532	15·3389498	·0002770851
3610	$2.5.19^2$	13032100	47045881000	60·0832756	15·3403664	·0002770083
3611	23.157	13039321	47084988131	60·0915968	15·3417828	·0002769316
3612	$2^2.3.7.43$	13046544	47124116928	60·0999168	15·3431988	·0002768549
3613	.....	13053769	47163267397	60·1082357	15·3446147	·0002767783
3614	2.13.139	13060996	47202439544	60·1165535	15·3460302	·0002767017
3615	3.5.241	13068225	47241633375	60·1248701	15·3474456	·0002766252
3616	$2^5.113$	13075456	47280848896	60·1331855	15·3488606	·0002765487
3617	.....	13082689	47320086113	60·1414998	15·3502753	·0002764722
3618	$2.3^2.67$	13089924	47359345032	60·1498130	15·3516898	·0002763958
3619	7.11.47	13097161	47398625659	60·1581250	15·3531041	·0002763194
3620	$2^2.5.181$	13104400	47437928000	60·1664358	15·3545181	·0002762431
3621	3.17.71	13111641	47477252061	60·1747455	15·3559318	·0002761668
3622	2.1811	13118884	47516597848	60·1830541	15·3573452	·0002760906
3623	.....	13126129	47555965367	60·1913615	15·3587584	·0002760144
3624	$2^3.3.151$	13133376	47595354624	60·1996678	15·3601714	·0002759382
3625	$5^4.29$	13140625	47634765625	60·2079729	15·3615841	·0002758621
3626	$2.7^2.37$	13147876	47674198376	60·2162769	15·3629965	·0002757860
3627	$3^2.13.31$	13155129	47713652883	60·2245797	15·3644087	·0002757100
3628	$2^2.907$	13162384	47753129152	60·2328814	15·3658206	·0002756340
3629	19.191	13169641	47792627189	60·2411819	15·3672323	·0002755580
3630	$2.3.5.11^2$	13176900	47832147000	60·2494815	15·3686437	·0002754821
3631	.....	13184161	47871688591	60·2577796	15·3700548	·0002754062
3632	$2^4.227$	13191424	47911251968	60·2660767	15·3714657	·0002753304
3633	3.7.173	13198689	47950837137	60·2743727	15·3728763	·0002752546
3634	2.23.79	13205956	47990444104	60·2826675	15·3742866	·0002751789
3635	5.727	13213225	48030072875	60·2909612	15·3756967	·0002751032
3636	$2^2.3^2.101$	13220496	48069723456	60·2992537	15·3771066	·0002750275
3637	.....	13227769	48109395853	60·3075451	15·3785162	·0002749519
3638	2.17.107	13235044	48149090072	60·3158354	15·3799255	·0002748763
3639	3.1213	13242321	48188806119	60·3241245	15·3813345	·0002748008
3640	$2^3.5.7.13$	13249600	48228544000	60·3324125	15·3827433	·0002747253
3641	11.331	13256881	48268303721	60·3406994	15·3841519	·0002746498
3642	2.3.607	13264164	48308085288	60·3489851	15·3855602	·0002745744
3643	.....	13271449	48347888707	60·3572697	15·3869683	·0002744990
3644	$2^2.911$	13278736	48387713984	60·3655531	15·3883760	·0002744237
3645	$3^6.5$	13286025	48427561125	60·3738354	15·3897835	·0002743484
3646	2.1823	13293316	48467430136	60·3821166	15·3911908	·0002742732
3647	7.521	13300609	48507321023	60·3903966	15·3925978	·0002741980
3648	$2^6.3.19$	13307904	48547233792	60·3986755	15·3940045	·0002741228
3649	41.89	13315201	48587168449	60·4069532	15·3954110	·0002740477
3650	$2.5^2.73$	13322500	48627125000	60·4152299	15·3968173	·0002739726
3651	3.1217	13329801	48667103451	60·4235054	15·3982232	·0002738976
3652	$2^2.11.83$	13337104	48707103808	60·4317797	15·3996290	·0002738226
3653	13.281	13344409	48747126077	60·4400529	15·4010344	·0002737476
3654	$2.3^2.7.29$	13351716	48787170264	60·4483250	15·4024396	·0002736727
3655	5.17.43	13359025	48827236375	60·4565960	15·4038446	·0002735978
3656	$2^3.457$	13366336	48867324416	60·4648658	15·4052492	·0002735230
3657	3.23.53	13373649	48907434393	60·4731345	15·4066537	·0002734482
3658	2.31.59	13380964	48947566312	60·4814021	15·4080579	·0002733734
3659	.....	13388281	48987720179	60·4896685	15·4094618	·0002732987

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3660	$2^2.3.5.61$	13395600	49027896000	60·4979338	15·4108655	·0002732240
3661	7.523	13402921	49068093781	60·5061980	15·4122689	·0002731494
3662	2.1831	13410244	49108313528	60·5144611	15·4136720	·0002730748
3663	$3^3.11.37$	13417569	49148555247	60·5227230	15·4150749	·0002730003
3664	$2^4.229$	13424896	49188818944	60·5309838	15·4164776	·0002729258
3665	5.733	13432225	49229104625	60·5392435	15·4178799	·0002728513
3666	2.3.13.47	13439556	49269412296	60·5475020	15·4192821	·0002727769
3667	19.193	13446889	49309741963	60·5557594	15·4206840	·0002727025
3668	$2^2.7.131$	13454224	49350093632	60·5640157	15·4220856	·0002726281
3669	3.1223	13461561	49390467309	60·5722709	15·4234870	·0002725538
3670	2.5.367	13468900	49430863000	60·5805249	15·4248881	·0002724796
3671	.....	13476241	49471280711	60·5887778	15·4262890	·0002724053
3672	$2^3.3^3.17$	13483584	49511720448	60·5970296	15·4276896	·0002723312
3673	.....	13490929	49552182217	60·6052803	15·4290900	·0002722570
3674	2.11.167	13498276	49592666024	60·6135299	15·4304900	·0002721829
3675	$3.5^2.7^2$	13505625	49633171875	60·6217783	15·4318899	·0002721088
3676	$2^2.919$	13512976	49673699776	60·6300256	15·4332894	·0002720348
3677	.....	13520329	49714249733	60·6382717	15·4346888	·0002719608
3678	2.3.613	13527684	49754821752	60·6465168	15·4360879	·0002718869
3679	13.283	13535041	49795415839	60·6547607	15·4374867	·0002718130
3680	$2^5.5.23$	13542400	49836032000	60·6630036	15·4388853	·0002717391
3681	$3^3.409$	13549761	49876670241	60·6712453	15·4402836	·0002716653
3682	2.7.263	13557124	49917330568	60·6794858	15·4416817	·0002715915
3683	29.127	13564489	49958012987	60·6877253	15·4430795	·0002715178
3684	$2^2.3.307$	13571856	49998717504	60·6959636	15·4444771	·0002714441
3685	5.11.67	13579225	50039444125	60·7042009	15·4458744	·0002713704
3686	2.19.97	13586596	50080192856	60·7124369	15·4472715	·0002712968
3687	3.1229	13593969	50120963703	60·7206719	15·4486683	·0002712232
3688	$2^3.461$	13601344	50161756672	60·7289058	15·4500649	·0002711497
3689	7.17.31	13608721	50202571769	60·7371386	15·4514612	·0002710762
3690	$2.3^2.5.41$	13616100	50243409000	60·7453702	15·4528572	·0002710027
3691	.....	13623481	50284268371	60·7536007	15·4542530	·0002709293
3692	$2^2.13.71$	13630864	50325149888	60·7618301	15·4556485	·0002708559
3693	3.1231	13638249	50366053557	60·7700584	15·4570438	·0002707826
3694	2.1847	13645636	50406979384	60·7782856	15·4584388	·0002707093
3695	5.739	13653025	50447927375	60·7865117	15·4598336	·0002706360
3696	$2^4.3.7.11$	13660416	50488897536	60·7947366	15·4612281	·0002705628
3697	.....	13667809	50529889873	60·8029605	15·4626224	·0002704896
3698	2.43^2	13675204	50570904392	60·8111832	15·4640165	·0002704164
3699	$3^3.137$	13682601	50611941099	60·8194048	15·4654102	·0002703433
3700	$2^2.5^2.37$	13690000	50653000000	60·8276253	15·4668038	·0002702703
3701	.....	13697401	50694080101	60·8358447	15·4681970	·0002701972
3702	2.3.617	13704804	50735184408	60·8440630	15·4695901	·0002701243
3703	7.23²	13712209	50776309927	60·8522802	15·4709829	·0002700513
3704	$2^3.463$	13719616	50817457664	60·8604962	15·4723754	·0002699784
3705	3.5.13.19	13727025	50858627625	60·8687112	15·4737676	·0002699055
3706	2.17.109	13734436	50899819816	60·8769250	15·4751596	·0002698327
3707	11.337	13741849	50941034243	60·8851378	15·4765514	·0002697599
3708	$2^2.3^3.103$	13749264	50982270912	60·8933494	15·4779429	·0002696872
3709	.....	13756681	51023529829	60·9015599	15·4793342	·0002696145
3710	2.5.7.53	13764100	51064811000	60.9097693	15·4807252	·0002695418
3711	3^3 1237	13771521	51106114431	60·9179776	15·4821159	·0002694691
3712	27.29	13778944	51147440128	60·9261848	15·4835065	·0002693966
3713	47.79	13786369	51188788097	60·9343909	15·4848968	·0002693240
3714	2.3.619	13793796	51230158344	60·9425959	15·4862868	·0002692515
3715	5.743	13801225	51271550875	60·9507998	15·4876766	·0002691790
3716	$2^2.929$	13808656	51312965696	60·9590026	15·4890661	·0002691066
3717	$3^2.7.59$	13816089	51354402813	60·9672043	15·4904554	·0002690342
3718	2.13.143	13823524	51395862232	60·9754049	15·4918445	·0002689618
3719	.....	13830961	51437343959	60·9836044	15·4932333	·0002688895

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3720	$2^3.3.5.31$	13838400	51478848000	60·9918027	15·4946218	·0002688172
3721	61^2	13845841	51520374361	61·0000000	15·4960101	·0002687450
3722	2.1861	13853284	51561923048	61·0081962	15·4973982	·0002686728
3723	3.17.73	13860729	51603494067	61·0163912	15·4987859	·0002686006
3724	$2^2.7^2.19$	13868176	51645087424	61·0245852	15·5001735	·0002685285
3725	$5^2.149$	13875625	51686703125	61·0327781	15·5015608	·0002684564
3726	$2.3^4.23$	13883076	51728341176	61·0409698	15·5029478	·0002683843
3727	.....	13890529	51770001583	61·0491605	15·5043346	·0002683123
3728	$2^4.233$	13897984	51811684352	61·0573501	15·5057211	·0002682403
3729	3.11.113	13905441	51853389489	61·0655386	15·5071074	·0002681684
3730	2.5.373	13912900	51895117000	61·0737259	15·5084935	·0002680965
3731	7.13.41	13920361	51936866891	61·0819122	15·5098793	·0002680247
3732	$2^2.3.311$	13927824	51978639168	61·0900974	15·5112648	·0002679528
3733	.....	13935289	52020433837	61·0982815	15·5126501	·0002678811
3734	2.1867	13942756	52062250904	61·1064645	15·5140352	·0002678093
3735	$3^2.5.83$	13950225	52104090375	61·1146464	15·5154200	·0002677376
3736	$2^3.467$	13957696	52145952256	61·1228272	15·5168046	·0002676660
3737	37.101	13965169	52187836553	61·1310069	15·5181889	·0002675943
3738	2.3.7.89	13972644	52229743272	61·1391855	15·5195729	·0002675227
3739	.....	13980121	52271672419	61·1473630	15·5209568	·0002674512
3740	$2^2.5.11.17$	13987600	52313624000	61·1555394	15·5223403	·0002673797
3741	3.29.43	13995081	52355598021	61·1637147	15·5237237	·0002673082
3742	2.1871	14002564	52397594488	61·1718890	15·5251067	·0002672368
3743	19.197	14010049	52439613407	61·1800621	15·5264895	·0002671654
3744	$2^5.3^2.13$	14017536	52481654784	61·1882342	15·5278722	·0002670940
3745	5.7.107	14025025	52523718625	61·1964051	15·5292545	·0002670227
3746	2.1873	14032516	52565804936	61·2045750	15·5306366	·0002669514
3747	3.1249	14040009	52607913723	61·2127438	15·5320185	·0002668802
3748	$2^2.937$	14047504	52650044992	61·2209115	15·5334001	·0002668090
3749	23.163	14055001	52692198749	61·2290781	15·5347815	·0002667378
3750	$2.3.5^4$	14062500	52734375000	61·2372436	15·5361626	·0002666667
3751	$11^2.31$	14070001	52776573751	61·2454080	15·5375434	·0002665956
3752	$2^3.7.67$	14077504	52818795008	61·2535713	15·5389240	·0002665245
3753	$3^3.139$	14085009	52861038777	61·2617336	15·5403044	·0002664535
3754	2.1877	14092516	52903305064	61·2698947	15·5416845	·0002663825
3755	5.751	14100025	52945593875	61·2780548	15·5430644	·0002663116
3756	$2^2.3.313$	14107536	52987905216	61·2862138	15·5444440	·0002662407
3757	13.17^2	14115049	53030239093	61·2943717	15·5458234	·0002661698
3758	2.1879	14122564	53072595512	61·3025285	15·5472026	·0002660990
3759	3.7.179	14130081	53114974479	61·3106842	15·5485815	·0002660282
3760	$2^4.5.47$	14137600	53157376000	61·3188389	15·5499602	·0002659574
3761	.....	14145121	53199800081	61·3269924	15·5513386	·0002658867
3762	$2.3^2.11.19$	14152644	53242246728	61·3351449	15·5527168	·0002658161
3763	53.71	14160169	53284715947	61·3432963	15·5540947	·0002657454
3764	$2^2.941$	14167696	53327207744	61·3514466	15·5554724	·0002656748
3765	3.5.251	14175225	53369722125	61·3595958	15·5568498	·0002656042
3766	2.7.269	14182756	53412259096	61·3677440	15·5582270	·0002655337
3767	.....	14190289	53454818663	61·3758910	15·5596040	·0002654632
3768	$2^3.3.157$	14197824	53497400832	61·3840370	15·5609807	·0002653928
3769	.....	14205361	53540005609	61·3921819	15·5623572	·0002653224
3770	2.5.13.29	14212900	53582633000	61·4003257	15·5637334	·0002652520
3771	$3^2.419$	14220441	53625283011	61·4084685	15·5651094	·0002651816
3772	$2^2.23.41$	14227984	53667955648	61·4166101	15·5664851	·0002651113
3773	$7^2.11$	14235529	53710650917	61·4247507	15·5678606	·0002650411
3774	$2.3.17.37$	14243076	53753368824	61·4328902	15·5692358	·0002649709
3775	$5^2.151$	14250625	53796109375	61·4410286	15·5706108	·0002649007
3776	$2^6.59$	14258176	53838872576	61·4491660	15·5719856	·0002648305
3777	3.1259	14265729	53881658433	61·4573023	15·5733601	·0002647604
3778	2.1889	14273284	53924466952	61·4654374	15·5747344	·0002646903
3779	.....	14280841	53967298139	61·4735716	15·5747085	·0002646203

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3780	$2^2.3^3.5.7$	14288400	54010152000	61·4817046	15·5774823	·0002645503
3781	19.199	14295961	54053028541	61·4898366	15·5788558	·0002644803
3782	2.31.61	14303524	54095927768	61·4979675	15·5802291	·0002644104
3783	3.13.97	14311089	54138849687	61·5060973	15·5816022	·0002643405
3784	$2^3.11.43$	14318656	54181794304	61·5142260	15·5829751	·0002642706
3785	5.757	14326225	54224761625	61·5223536	15·5843477	·0002642008
3786	2.3.631	14333796	54267751656	61·5304802	15·5857200	·0002641310
3787	7.541	14341369	54310764403	61·5386058	15·5870921	·0002640613
3788	$2^2.947$	14348944	54353799872	61·5467302	15·5884640	·0002639916
3789	$3^2.421$	14356521	54396858069	61·5548536	15·5898356	·0002639219
3790	2.5.379	14364100	54439939000	61·5629759	15·5912070	·0002638522
3791	17.223	14371681	54483042671	61·5710971	15·5925781	·0002637826
3792	$2^4.3.79$	14379264	54526169088	61·5792173	15·5939490	·0002637131
3793	.....	14386849	54569318257	61·5873364	15·5953197	·0002636436
3794	2.7.271	14394436	54612490184	61·5954544	15·5966901	·0002635741
3795	3.5.11.23	14402025	54655684875	61·6035713	15·5980602	·0002635046
3796	$2^2.13.73$	14409616	54698902336	61·6116872	15·5994301	·0002634352
3797	.....	14417209	54742142573	61·6198020	15·6007999	·0002633658
3798	$2.3^2.211$	14424804	54785405592	61·6279158	15·6021693	·0002632965
3799	29.131	14432401	54828691399	61·6360284	15·6035385	·0002632272
3800	$2^3.5^2.19$	14440000	54872000000	61·6441400	15·6049075	·0002631579
3801	3.7.181	14447601	54915331401	61·6522506	15·6062763	·0002630887
3802	2.1901	14455204	54958685608	61·6603600	15·6076448	·0002630195
3803	.....	14462809	55002062627	61·6684684	15·6090130	·0002629503
3804	$2^2.3.317$	14470416	55045462464	61·6765758	15·6103810	·0002628812
3805	5.761	14478025	55088885125	61·6846821	15·6117488	·0002628121
3806	2 11.173	14485636	55132330616	61·6927873	15·6131164	·0002627430
3807	$3^4.47$	14493249	55175798943	61·7008914	15·6144837	·0002626740
3808	$2^5.7.17$	14500864	55219290112	61·7089945	15·6158507	·0002626050
3809	13.293	14508481	55262804129	61·7170965	15·6172175	·0002625361
3810	2.3.5.127	14516100	55306341000	61·7251974	15·6185841	·0002624672
3811	37.103	14523721	55349900731	61·7332973	15·6199504	·0002623983
3812	$2^2.953$	14531344	55393483328	61·7413962	15·6213165	·0002623295
3813	3.31.41	14538969	55437088797	61·7494939	15·6226824	·0002622607
3814	2.1907	14546596	55480717144	61·7575906	15·6240479	·0002621919
3815	5.7.109	14554225	55524368375	61·7656863	15·6254133	·0002621232
3816	$2^3.3^2.53$	14561856	55568042496	61·7737808	15·6267785	·0002620545
3817	11.347	14569489	55611739513	61·7818744	15·6281434	·0002619859
3818	2.23.83	14577124	55655459432	61·7899668	15·6295081	·0002619172
3819	3.19.67	14584761	55699202259	61·7980582	15·6308725	·0002618487
3820	$2^2.5.191$	14592400	55742968000	61·8061486	15·6322367	·0002617801
3821	.....	14600041	55786756661	61·8142378	15·6336007	·0002617116
3822	$2.3.7^2 13$	14607684	55830568248	61·8223261	15·6349644	·0002616431
3823	.....	14615329	55874402767	61·8304132	15·6363279	·0002615747
3824	$2^4.239$	14622976	55918260224	61·8384993	15·6376911	·0002615063
3825	$3^2.5^2.17$	14630625	55962140625	61·8465844	15·6390541	·0002614379
3826	2.1913	14638276	56006043976	61·8546684	15·6404169	·0002613696
3827	43.89	14645929	56049970283	61·8627513	15·6417794	·0002613013
3828	$2^2.3.1129$	14653584	56093919552	61·8708332	15·6431417	·0002612330
3829	7.547	14661241	56137891789	61·8789140	15·6445037	·0002611648
3830	2.5.383	14668900	56181887000	61·8869938	15·6458655	·0002610966
3831	3.1277	14676561	56225905191	61·8950725	15·6472271	·0002610285
3832	$2^3.479$	14684224	56269946368	61·9031502	15·6485884	·0002609603
3833	.....	14691889	56314010537	61·9112268	15·6499495	·0002608923
3834	2.3.9.71	14699556	56358097704	61·9193023	15·6513104	·0002608242
3835	5.13.59	14707225	56402207875	61·9273768	15·6526710	·0002607562
3836	$2^2.7.137$	14714896	56446341056	61·9354503	15·6540314	·0002606882
3837	3.1279	14722569	56490497253	61·9435227	15·6553916	·0002606203
3838	2.19.101	14730244	56534676472	61·9515940	15·6567515	·0002605524
3839	11.349	14737921	56578878719	61·9596643	15·6581111	·0002604845

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3840	$2^8.3.5$	14745600	56623104000	61·9677335	15·6594705	·0002604167
3841	23.167	14753281	56667352321	61·9758017	15·6608298	·0002603489
3842	2.17.113	14760964	56711623688	61·9838689	15·6621888	·0002602811
3843	$3^2.7.61$	14768649	56755918107	61·9919350	15·6635475	·0002602134
3844	$2^2.31^2$	14776336	56800235584	62·0000000	15·6649060	·0002601457
3845	5.769	14784025	56844576125	62·0080640	15·6662643	·0002600780
3846	2.3.641	14791716	56888939736	62·0161269	15·6676223	·0002600104
3847	.....	14799409	56933326423	62·0241888	15·6689801	·0002599428
3848	$2^3.13.37$	14807104	56977736192	62·0322497	15·6703376	·0002598753
3849	3.1283	14814801	57022169049	62·0403095	15·6716950	·0002598078
3850	$2.5^2.7.11$	14822500	57066625000	62·0483682	15·6730522	·0002597403
3851	.....	14830201	57111104051	62·0564259	15·6744090	·0002596728
3852	$2^2.3^2.107$	14837904	57155606208	62·0644826	15·6757656	·0002596054
3853	.....	14845609	57200131477	62·0725382	15·6771220	·0002595380
3854	2.41.47	14853316	57244679864	62·0805928	15·6784781	·0002594707
3855	3.5.257	14861025	57289251375	62·0886463	15·6798341	·0002594034
3856	$2^4.241$	14868736	57333846016	62·0966988	15·6811897	·0002593361
3857	7.19.29	14876449	57378463793	62·1047502	15·6825451	·0002592689
3858	2.3.643	14884164	57423104712	62·1128006	15·6839003	·0002592017
3859	17.227	14891881	57467768779	62·1208500	15·6852553	·0002591345
3860	$2^2.5.193$	14899600	57512456000	62·1288983	15·6866100	·0002590674
3861	$3^3.11.13$	14907321	57557166381	62·1369455	15·6879646	·0002590003
3862	2.1931	14915044	57601899928	62·1449917	15·6893188	·0002589332
3863	.....	14922769	57646656647	62·1530369	15·6906729	·0002588662
3864	$2^3.3.7.23$	14930496	57691436544	62·1610811	15·6920267	·0002587992
3865	5.773	14938225	57736239625	62·1691242	15·6933803	·0002587322
3866	2.1933	14945956	57781065896	62·1771662	15·6947336	·0002586653
3867	3.1289	14953689	57825915363	62·1852073	15·6960867	·0002585984
3868	$2^2.967$	14961424	57870788032	62·1932472	15·6974396	·0002585315
3869	53.73	14969161	57915683909	62·2012862	15·6987923	·0002584647
3870	$2.3^2.5.43$	14976900	57960603000	62·2093241	15·7001447	·0002583979
3871	$7^2.79$	14984641	58005545311	62·2173609	15·7014969	·0002583312
3872	$2^5.11^2$	14992384	58050510848	62·2253967	15·7028488	·0002582645
3873	3.1291	15000129	58095499617	62·2334315	15·7042006	·0002581978
3874	2.13.149	15007876	58140511624	62·2414653	15·7055520	·0002581311
3875	$5^3.31$	15015625	58185546875	62·2494980	15·7069033	·0002580645
3876	$2^2.3.17.19$	15023376	58230605376	62·2575297	15·7082543	·0002579979
3877	.....	15031129	58275687133	62·2655603	15·7096051	·0002579314
3878	2.7.277	15038884	58320792152	62·2735899	15·7109556	·0002578649
3879	$3^3.431$	15046641	58365920439	62·2816185	15·7123060	·0002577984
3880	$2^3.5.97$	15054400	58411072000	62·2896460	15·7136561	·0002577320
3881	.....	15062161	58456246841	62·2976725	15·7150059	·0002576656
3882	2.3.647	15069924	58501444968	62·3056980	15·7163556	·0002575992
3883	11.353	15077689	58546666387	62·3137224	15·7177049	·0002575328
3884	$2^2.971$	15085456	58591911104	62·3217458	15·7190541	·0002574665
3885	3.5.7.37	15093225	58637179125	62·3297682	15·7204030	·0002574003
3886	2.29.67	15100996	58682470456	62·3377895	15·7217517	·0002573340
3887	$13^2.23$	15108769	58727785103	62·3458098	15·7231002	·0002572678
3888	$2^4.3^5$	15116544	58773123072	62·3538291	15·7244484	·0002572016
3889	.....	15124321	58818484369	62·3618473	15·7257964	·0002571355
3890	2.5.389	15132100	58863869000	62·3698645	15·7271441	·0002570694
3891	3.1297	15139881	58909276971	62·3778807	15·7284917	·0002570033
3892	$2^2.7.139$	15147664	58954708288	62·3858958	15·7298390	·0002569373
3893	17.229	15155449	59000162957	62·3939100	15·7311861	·0002568713
3894	2.3.11.59	15163236	59045640984	62·4019231	15·7325329	·0002568053
3895	5.19.41	15171025	59091142375	62·4099351	15·7338795	·0002567394
3896	$2^3.487$	15178816	59136667136	62·4179461	15·7352259	·0002566735
3897	$3^2.433$	15186609	59182215273	62·4259561	15·7365721	·0002566076
3898	2.1949	15194404	59227786792	62·4339651	15·7379180	·0002565418
3899	17.557	15202201	59273381699	62·4419731	15·7392637	·0002564760

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3900	$2^2.3.5^2.13$	15210000	59319000000	62·4499800	15·7406092	·0002564103
3901	47.83	15217801	59364641701	62·4579859	15·7419544	·0002563445
3902	2.1951	15225604	59410306808	62·4659908	15·7432994	·0002562788
3903	3.1301	15233409	59455995327	62·4739946	15·7446442	·0002562132
3904	$2^6.61$	15241216	59501707264	62·4819974	15·7459888	·0002561475
3905	5.11.71	15249025	59547442625	62·4899992	15·7473331	·0002560819
3906	$2.3^2.7.31$	15256836	59593201416	62·4980000	15·7486772	·0002560164
3907	.....	15264649	59638983643	62·5059997	15·7500210	·0002559509
3908	$2^2.977$	15272464	59684789312	62·5139984	15·7513647	·0002558854
3909	3.1303	15280281	59730618429	62·5219961	15·7527081	·0002558199
3910	2.5.17.23	15288100	59776471000	62·5299928	15·7540512	·0002557545
3911	.....	15295921	59822347031	62·5379884	15·7553942	·0002556891
3912	$2^3.3.163$	15303744	59868246528	62·5459831	15·7567369	·0002556237
3913	7.13.43	15311569	59914169497	62·5539767	15·7580794	·0002555584
3914	2.19.103	15319396	59960115944	62·5619693	15·7594216	·0002554931
3915	$3^3.5.29$	15327225	60006085875	62·5699609	15·7607636	·0002554278
3916	$2^2.11.89$	15335056	60052079296	62·5779514	15·7621054	·0002553626
3917	.....	15342889	60098096213	62·5859409	15·7634470	·0002552974
3918	2.3.653	15350724	60144136632	62·5939294	15·7647883	·0002552323
3919	.....	15358561	60190200559	62·6019169	15·7661294	·0002551671
3920	$2^4.5.7^2$	15366400	60236288000	62·6099033	15·7674703	·0002551020
3921	3.1307	15374241	60282398961	62·6178888	15·7688110	·0002550370
3922	2.37.53	15382084	60328533448	62·6258733	15·7701514	·0002549720
3923	.....	15389929	60374691467	62·6338567	15·7714916	·0002549070
3924	$2^2.3^2.109$	15397776	60420873024	62·6418391	15·7728316	·0002548420
3925	$5^2.157$	15405625	60467078125	62·6498204	15·7741714	·0002547771
3926	2.13.151	15413476	60513306776	62·6578008	15·7755109	·0002547122
3927	3.7.11.17	15421329	60559558983	62·6657801	15·7768502	·0002546473
3928	$2^3.491$	15429184	60605834752	62·6737585	15·7781892	·0002545825
3929	.....	15437041	60652134089	62·6817358	15·7795281	·0002545177
3930	2.3.5.131	15444900	60698457000	62·6897121	15·7808667	·0002544529
3931	.....	15452761	60744803491	62·6976873	15·7822051	·0002543882
3932	$2^2.983$	15460624	60791173568	62·7056616	15·7835432	·0002543235
3933	$3^2.19.23$	15468489	60837567237	62·7136349	15·7848812	·0002542588
3934	2.7.281	15476356	60883984504	62·7216071	15·7862189	·0002541942
3935	5.787	15484225	60930425375	62·7295783	15·7875563	·0002541296
3936	$2^5.3.41$	15492096	60976889856	62·7375486	15·7888936	·0002540650
3937	31.127	15499969	61023377953	62·7455178	15·7902306	·0002540005
3938	2.11.179	15507844	61069889672	62·7534860	15·7915674	·0002539360
3939	3.13.101	15515721	61116425019	62·7614531	15·7929040	·0002538715
3940	$2^2.5.197$	15523600	61162984000	62·7694193	15·7942493	·0002538071
3941	7.563	15531481	61209566621	62·7773845	15·7955764	·0002537427
3942	$2.3^2.73$	15539364	61256172888	62·7853486	15·7969123	·0002536783
3943	.....	15547249	61302802807	62·7933118	15·7982479	·0002536140
3944	$2^3.17.29$	15555136	61349456384	62·8012739	15·7995833	·0002535497
3945	3.5.263	15563025	61396133625	62·8092350	15·8009186	·0002534854
3946	2.1973	15570916	61442834536	62·8171951	15·8022536	·0002534212
3947	.....	15578809	61489559123	62·8251542	15·8035883	·0002533570
3948	$2^2.3.7.47$	15586704	61536307392	62·8331123	15·8049229	·0002532928
3949	11.359	15594601	61583079349	62·8410694	15·8062572	·0002532287
3950	$2.5^2.79$	15602500	61629875000	62·8490255	15·8075913	·0002531646
3951	$3^2.439$	15610401	61676694351	62·8569805	15·8089251	·0002531005
3952	$2^4.13.19$	15618304	61723537408	62·8649346	15·8102588	·0002530364
3953	59.67	15626209	61770404177	62·8728876	15·8115922	·0002529724
3954	2.3.659	15634116	61817294664	62·8808397	15·8129254	·0002529084
3955	5.7.113	15642025	61864208875	62·8887907	15·8142583	·0002528445
3956	$2^2.23.43$	15649936	61911146816	62·8967408	15·8155911	·0002527806
3957	3.1319	15657849	61958108493	62·9046898	15·8169236	·0002527167
3958	2.1979	15665764	62005093912	62·9126378	15·8182559	·0002526529
3959	37.107	15673681	62052103079	62·9205849	15·8195880	·0002525890

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
3960	$2^3.3^2.5.11$	15681600	62099136000	62·9285309	15·8209198	·0002525253
3961	17.233	15689521	62146192681	62·9364759	15·8222514	·0002524615
3962	2.7.283	15697444	62193273128	62·9444199	15·8235828	·0002523978
3963	3.1321	15705369	62240377347	62·9523630	15·8249139	·0002523341
3964	$2^2.991$	15713296	62287505344	62·9603050	15·8262448	·0002522704
3965	5.13.61	15721225	62334657125	62·9682460	15·8275756	·0002522068
3966	2.3.661	15729156	62381832696	62·9761860	15·8289060	·0002521432
3967	.....	15737089	62429032063	62·9841250	15·8302363	·0002520797
3968	$2^7.31$	15745024	62476255232	62·9920630	15·8315664	·0002520161
3969	$3^4.7^2$	15752961	62523502209	63·0000000	15·8328962	·0002519526
3970	2.5.397	15760900	62570773000	63·0079360	15·8342258	·0002518892
3971	11.19^2	15768841	62618067611	63·0158710	15·8355552	·0002518257
3972	$2^2.3.331$	15776784	62665386048	63·0238050	15·8368844	·0002517623
3973	29.137	15784729	62712728317	63·0317380	15·8382133	·0002516990
3974	2.1987	15792676	62760094424	63·0396701	15·8395420	·0002516356
3975	$3.5^2.53$	15800625	62807484375	63·0476011	15·8408705	·0002515723
3976	$2^3.7.71$	15808576	62854898176	63·0555311	15·8421988	·0002515091
3977	41.97	15816529	62902335833	63·0634601	15·8435268	·0002514458
3978	$2.3^2.13.19$	15824484	62949797352	63·0713881	15·8448546	·0002513826
3979	23.173	15832441	62997282739	63·0793152	15·8461822	·0002513194
3980	$2^2.5.199$	15840400	63044792000	63·0872412	15·8475096	·0002512563
3981	3.1327	15848361	63092325141	63·0951662	15·8488368	·0002511932
3982	2.11.181	15856324	63139882168	63·1030903	15·8501637	·0002511301
3983	7.569	15864289	63187463087	63·1110133	15·8514904	·0002510670
3984	$2^4.3.83$	15872256	63235067904	63·1189353	15·8528169	·0002510040
3985	5.797	15880225	63282696625	63·1268564	15·8541432	·0002509410
3986	2.1993	15888196	63330349256	63·1347765	15·8554692	·0002508781
3987	$3^2.443$	15896169	63378025803	63·1426956	15·8567950	·0002508151
3988	$2^2.997$	15904144	63425726272	63·1506136	15·8581206	·0002507522
3989	.....	15912121	63473450669	63·1585307	15·8594460	·0002506894
3990	2.3.5.7.19	15920100	63521199000	63·1664468	15·8607711	·0002506266
3991	13.307	15928081	63568971271	63·1743619	15·8620961	·0002505638
3992	$2^3.499$	15936064	63616767488	63·1822760	15·8634208	·0002505010
3993	3.11^3	15944049	63664587657	63·1901891	15·8647453	·0002504383
3994	2.1997	15952036	63712431784	63·1981013	15·8660695	·0002503756
3995	5.17.47	15960025	63760299875	63·2060124	15·8673936	·0002503129
3996	$2^2.3^2.37$	15968016	63808191936	63·2139225	15·8687174	·0002502503
3997	7.571	15976009	63856107973	63·2218317	15·8700410	·0002501877
3998	2.1999	15984004	63904047992	63·2297399	15·8713644	·0002501251
3999	3.31.43	15992001	63952011999	63·2376470	15·8726876	·0002500625
4000	$2^6.5^3$	16000000	64000000000	63·2455532	15·8740105	·0002500000
4001	.....	16008001	64048012001	63·2534584	15·8753333	·0002499375
4002	2.3.23.29	16016004	64096048008	63·2613626	15·8766558	·0002498750
4003	.....	16024009	64144108027	63·2692658	15·8779781	·0002498126
4004	$2^2.7.11.13$	16032016	64192192064	63·2771681	15·8793001	·0002497502
4005	$3^2.5.89$	16040025	64240300125	63·2850693	15·8806220	·0002496879
4006	2.2003	16048036	64288432216	63·2929696	15·8819436	·0002496256
4007	.....	16056049	64336588343	63·3008688	15·8832650	·0002495633
4008	$2^3.3.167$	16064064	64384768512	63·3087671	15·8845862	·0002495010
4009	19.211	16072081	64432972729	63·3166644	15·8859071	·0002494388
4010	2.5.401	16080100	64481201000	63·3245608	15·8872279	·0002493766
4011	3.7.191	16088121	64529453331	63·3324561	15·8885484	·0002493144
4012	$2^2.17.59$	16096144	64577729728	63·3403505	15·8898687	·0002492522
4013	.....	16104169	64626030197	63·3482439	15·8911888	·0002491901
4014	$2.3^2.223$	16112196	64674354744	63·3561363	15·8925086	·0002491281
4015	5.11.73	16120225	64722703375	63·3640277	15·8938283	·0002490660
4016	$2^4.251$	16128256	64771076096	63·3719181	15·8951477	·0002490040
4017	3.13.103	16136289	64819472913	63·3798075	15·8964669	·0002489420
4018	$2.7^3.41$	16144324	64867893832	63·3876960	15·8977859	·0002488800
4019	.....	16152361	64916338859	63·3955835	15·8991047	·0002488181

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4020	$2^2.3.5.67$	16160400	64964808000	63·4034700	15·9004232	·0002487562
4021	.....	16168441	65013301261	63·4113555	15·9017416	·0002486944
4022	2.2011	16176484	65061818648	63·4192400	15·9030597	·0002486325
4023	$3^3.149$	16184529	65110360167	63·4271235	15·9043776	·0002485707
4024	$2^3.503$	16192576	65158925824	63·4350061	15·9056953	·0002485089
4025	$5^2.7.23$	16200625	65207515625	63·4428877	15·9070128	·0002484472
4026	2.3.11.61	16208676	65256129576	63·4507683	15·9083300	·0002483855
4027	.....	16216729	65304767683	63·4586480	15·9096470	·0002483238
4028	$2^2.19.53$	16224784	65353429952	63·4665266	15·9109638	·0002482622
4029	3.17.79	16232841	65402116389	63·4744043	15·9122804	·0002482005
4030	2.5.13.31	16240900	65450827000	63·4822810	15·9135968	·0002481390
4031	29.139	16248961	65499561791	63·4901567	15·9149129	·0002480774
4032	$2^6.3^2.7$	16257024	65548320768	63·4980315	15·9162288	·0002480159
4033	37.109	16265089	65597103937	63·5059052	15·9175446	·0002479544
4034	2.2017	16273156	65645911304	63·5137780	15·9188601	·0002478929
4035	3 5.269	16281225	65694742875	63·5216498	15·9201754	·0002478315
4036	$2^2.1009$	16289296	65743598656	63·5295206	15·9214904	·0002477701
4037	11.367	16297369	65792478653	63·5373905	15·9228053	·0002477087
4038	2.3.673	16305444	65841382872	63·5452594	15·9241199	·0002476474
4039	7.577	16313521	65890311319	63·5531274	15·9254343	·0002475861
4040	$2^3.5.101$	16321600	65939264000	63·5609943	15·9267485	·0002475248
4041	$3^2.449$	16329681	65988240921	63·5688603	15·9280625	·0002474635
4042	2.43.47	16337764	66037242088	63·5767253	15·9293763	·0002474023
4043	13.311	16345849	66086267507	63·5845893	15·9306898	·0002473411
4044	$2^2.3.337$	16353936	66135317184	63·5924524	15·9320031	·0002472799
4045	5.809	16362025	66184391125	63·6003144	15·9333163	·0002472188
4046	$2.7.17^2$	16370116	66233489336	63·6081756	15·9346291	·0002471577
4047	3.19.71	16378209	66282611823	63·6160357	15·9359418	·0002470966
4048	$2^4.11.23$	16386304	66331758592	63·6238949	15·9372542	·0002470356
4049	.....	16394401	66380929649	63·6317531	15·9385665	·0002469746
4050	$2,3^4.5^2$	16402500	66430125000	63·6396103	15·9398785	·0002469136
4051	.....	16410601	66479344651	63·6474666	15·9411903	·0002468526
4052	$2^2.1013$	16418704	66528588608	63·6553219	15·9425019	·0002467917
4053	3.7.193	16426809	66577856877	63·6631762	15·9438133	·0002467308
4054	2.2027	16434916	66627149464	63·6710295	15·9451245	·0002466700
4055	5.811	16443025	66676466375	63·6788819	15·9464355	·0002466091
4056	$2^3.3.13^2$	16451136	66725807616	63·6867333	15·9477462	·0002465483
4057	.....	16459249	66775173193	63·6945838	15·9490568	·0002464876
4058	2.2029	16467364	66824563112	63·7024332	15·9503671	·0002464268
4059	$3^2.11.41$	16475481	66873977379	63·7102817	15·9516772	·0002463661
4060	$2^2.5.7.29$	16483600	66923416000	63·7181293	15·9529870	·0002463054
4061	31.131	16491721	66972878981	63·7259758	15·9542967	·0002462448
4062	2.3.677	16499844	67022366328	63·7338214	15·9556061	·0002461841
4063	17.239	16507969	67071878047	63·7416661	15·9569154	·0002461236
4064	$2^6.127$	16516096	67121414144	63·7495097	15·9582244	·0002460630
4065	3.5.271	16524225	67170974625	63·7573525	15·9595332	·0002460025
4066	2.19.107	16532356	67220559496	63·7651942	15·9608418	·0002459420
4067	$7^2.83$	16540489	67270168763	63·7730350	15·9621501	·0002458815
4068	$2^2.3^2.113$	16548624	67319802432	63·7808749	15·9634583	·0002458210
4069	13.313	16556761	67369460509	63·7887137	15·9647663	·0002457606
4070	2.5.11.37	16564900	67419143000	63·7965516	15·9660740	·0002457002
4071	3.23.59	16573041	67468849911	63·8043885	15·9673815	·0002456399
4072	$2^3.509$	16581184	67518581248	63·8122245	15·9686888	·0002455796
4073	.....	16589329	67568337017	63·8200595	15·9699959	·0002455193
4074	2.3.7.97	16597476	67618117224	63·8278936	15·9713028	·0002454590
4075	$5^2.163$	16605625	67667921875	63·8357267	15·9726094	·0002453988
4076	$2^2.1019$	16613776	67717750976	63·8435588	15·9739159	·0002455386
4077	$3^3.151$	16621929	67767604553	63·8513900	15·9752221	·0002452784
4078	2.2039	16630084	67817482552	63·8592202	15·9765281	·0002452182
4079	.....	16638241	67867385039	63·8670494	15·9778339	·0002451581

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4080	$2^4.3.5.17$	16646400	67917312000	63·8748777	15·9791395	·0002450980
4081	7.11.53	16654561	67967263441	63·8827050	15·9804449	·0002450380
4082	2.13.157	16662724	68017239368	63·8905314	15·9817500	·0002449780
4083	3.1361	16670889	68067239787	63·8983568	15·9830550	·0002449180
4084	$2^2.1021$	16679056	68117264704	63·9061812	15·9843597	·0002448580
4085	5.19.43	16687225	68167314125	63·9140047	15·9856642	·0002447980
4086	$2.3^2.227$	16695396	68217388056	63·9218273	15·9869686	·0002447381
4087	61.67	16703569	68267486503	63·9296488	15·9882727	·0002446782
4088	$2^3.7.73$	16711744	68317609472	63·9374694	15·9895765	·0002446184
4089	3.29.47	16719921	68367756969	63·9452891	15·9908802	·0002445586
4090	2.5.409	16728100	68417929000	63·9531078	15·9921837	·0002444988
4091	.....	16736281	68468125571	63·9609255	15·9934869	·0002444390
4092	$2^2.3.11.31$	16744464	68518346688	63·9687423	15·9947899	·0002443793
4093	.....	16752649	68568592357	63·9765582	15·9960928	·0002443196
4094	2.23.89	16760836	68618862584	63·9843731	15·9973954	·0002442599
4095	$3^2.5.7.13$	16769025	68669157375	63·9921870	15·9986978	·0002442002
4096	2^{12}	16777216	68719476736	64·0000000	16·0000000	·0002441406
4097	17.241	16785409	68769820673	64·0078120	16·0013020	·0002440810
4098	2.3.683	16793604	68820189192	64·0156231	16·0026037	·0002440215
4099	.....	16801801	68870582299	64·0234332	16·0039053	·0002439619
4100	$2^2.5^2.41$	16810000	68921000000	64·0312424	16·0052066	·0002439024
4101	3.1367	16818201	68971442301	64·0390506	16·0065078	·0002438430
4102	2.7.293	16826404	69021909208	64·0468578	16·0078087	·0002437835
4103	11.373	16834609	69072400727	64·0546642	16·0091094	·0002437241
4104	$2^3.3^3.19$	16842816	69122916864	64·0624695	16·0104099	·0002436647
4105	5.821	16851025	69173457625	64·0702739	16·0117102	·0002436054
4106	2.2053	16859236	69224023016	64·0780774	16·0130103	·0002435460
4107	3.37^2	16867449	69274613043	64·0858799	16·0143101	·0002434867
4108	$2^2.13.79$	16875664	69325227712	64·0936815	16·0156098	·0002434275
4109	7.587	16883881	69375867029	64·1014821	16·0169092	·0002433682
4110	2.3.5.137	16892100	69426531000	64·1092817	16·0182084	·0002433090
4111	.....	16900321	69477219631	64·1170804	16·0195075	·0002432498
4112	$2^4.257$	16908544	69527932928	64·1248782	16·0208063	·0002431907
4113	$3^3.457$	16916769	69578670897	64·1326750	16·0221049	·0002431315
4114	$2.11^2.17$	16924996	69629433544	64·1404709	16·0234033	·0002430724
4115	5.823	16933225	69680220875	64·1482658	16·0247014	·0002430134
4116	$2^2.3.7^3$	16941456	69731032896	64·1560597	16·0259994	·0002429543
4117	23.179	16949689	69781869613	64·1638528	16·0272972	·0002428953
4118	2.29.71	16957924	69832731032	64·1716449	16·0285947	·0002428363
4119	3.1373	16966161	69883617159	64·1794360	16·0298920	·0002427774
4120	$2^3.5.103$	16974400	69934528000	64·1872262	16·0311891	·0002427184
4121	13.317	16982641	69985463561	64·1950154	16·0324861	·0002426595
4122	$2.3^2.229$	16990884	70036423848	64·2028037	16·0337828	·0002426007
4123	7.19.31	16999129	70087408867	64·2105910	16·0350793	·0002425418
4124	$2^2.1031$	17007376	70138418624	64·2183774	16·0363756	·0002424830
4125	$3.5^3.11$	17015625	70189453125	64·2261629	16·0376717	·0002424242
4126	2.2063	17023876	70240512376	64·2339474	16·0389676	·0002423655
4127	.....	17032129	70291596383	64·2417309	16·0402632	·0002423068
4128	$2^5.3.43$	17040384	70342705152	64·2495136	16·0415587	·0002422481
4129	.....	17048641	70393838689	64·2572953	16·0428539	·0002421894
4130	2.5.7.59	17056900	70444997000	64·2650760	16·0441489	·0002421308
4131	$3^4.17$	17065161	70496180091	64·2728559	16·0454438	·0002420722
4132	$2^2.1033$	17073424	70547387968	64·2806347	16·0467384	·0002420136
4133	.....	17081689	70598620637	64·2884126	16·0480328	·0002419550
4134	2.3.13.53	17089956	70649878104	64·2961896	16·0493270	·0002418965
4135	5.827	17098225	70701160375	64·3039657	16·0506210	·0002418380
4136	$2^3.11.47$	17106496	70752467456	64·3117408	16·0519148	·0002417795
4137	3.7.197	17114769	70803799353	64·3195149	16·0532083	·0002417211
4138	2.2069	17123044	70855156072	64·3272881	16·0545017	·0002416627
4139	.....	17131321	70906537619	64·3350604	16·0557948	·0002416043

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4140	$2^2.3^2.5.23$	17139600	70957944000	64·3428318	16·0570878	·0002415459
4141	41.101	17147881	71009375221	64·3506022	16·0583805	·0002414876
4142	2.19.109	17156164	71060831288	64·3583717	16·0596730	·0002414293
4143	3.1381	17164449	71112312207	64·3661402	16·0609653	·0002413710
4144	$2^4.7.37$	17172736	71163817984	64·3739078	16·0622574	·0002413127
4145	5.829	17181025	71215348625	64·3816744	16·0635493	·0002412545
4146	2.3.691	17189316	71266904136	64·3894402	16·0648410	·0002411963
4147	11.13.29	17197609	71318484523	64·3972049	16·0661325	·0002411382
4148	$2^2.17.61$	17205904	71370089792	64·4049688	16·0674238	·0002410800
4149	$3^2.461$	17214201	71421719949	64·4127317	16·0687149	·0002410219
4150	$2.5^2.83$	17222500	71473375000	64·4204936	16·0700058	·0002409639
4151	7.593	17230801	71525054951	64·4282546	16·0712964	·0002409058
4152	$2^3.3.173$	17239104	71576759808	64·4360147	16·0725869	·0002408478
4153	.....	17247409	71628489577	64·4437739	16·0738771	·0002407898
4154	2.31.67	17255716	71680244264	64·4515321	16·0751672	·0002407318
4155	3.5.277	17264025	71732023875	64·4592894	16·0764570	·0002406739
4156	$2^2.1039$	17272336	71783828416	64·4670458	16·0777466	·0002406160
4157	.....	17280649	71835657893	64·4748013	16·0790360	·0002405581
4158	$2.3^3.7.11$	17288964	71887512312	64·4825558	16·0803253	·0002405002
4159	.....	17297281	71939391679	64·4903093	16·0816143	·0002404424
4160	$2^6.5.13$	17305600	71991296000	64·4980620	16·0829031	·0002403846
4161	3.19.73	17313921	72043225281	64·5058137	16·0841916	·0002403268
4162	2.2081	17322244	72095179528	64·5135644	16·0854800	·0002402691
4163	23.181	17330569	72147158747	64·5213143	16·0867682	·0002402114
4164	$2^2.3.347$	17338896	72199162944	64·5290632	16·0880561	·0002401537
4165	$5.7^2.17$	17347225	72251192125	64·5368112	16·0893439	·0002400960
4166	2.2083	17355556	72303246296	64·5445582	16·0906315	·0002400384
4167	$3^2.463$	17363889	72355325463	64·5523044	16·0919188	·0002399808
4168	$2^3.521$	17372224	72407429632	64·5600496	16·0932059	·0002399232
4169	11.379	17380561	72459558809	64·5677938	16·0944929	·0002398657
4170	2.3.5.139	17388900	72511713000	64·5755372	16·0957796	·0002398082
4171	43.97	17397241	72563892211	64·5832796	16·0970661	·0002397507
4172	$2^2.7.149$	17405584	72616096448	64·5910211	16·0983525	·0002396932
4173	3.13.107	17413929	72668325717	64·5987616	16·0996386	·0002396358
4174	2.2087	17422276	72720580024	64·6065012	16·1009245	·0002395783
4175	$5^2.167$	17430625	72772859375	64·6142399	16·1022102	·0002395210
4176	$2^4.3^2.29$	17438976	72825163776	64·6219777	16·1034957	·0002394636
4177	.....	17447329	72877493233	64·6297145	16·1047811	·0002394063
4178	2.2089	17455684	72929847752	64·6374504	16·1060662	·0002393490
4179	3.7.199	17464041	72982227339	64·6451854	16·1073511	·0002392917
4180	$2^2.5.11.19$	17472400	73034632000	64·6529194	16·1086357	·0002392344
4181	37.113	17480761	73087061741	64·6606526	16·1099202	·0002391772
4182	2.3.17.41	17489124	73139516568	64·6683848	16·1112045	·0002391200
4183	47.89	17497489	73191996487	64·6761161	16·1124886	·0002390629
4184	$2^3.523$	17505856	73244501504	64·6838465	16·1137725	·0002390057
4185	$3^3.5.31$	17514225	73297031625	64·6915760	16·1150561	·0002389486
4186	2.7.13.23	17522596	73349586856	64·6993045	16·1163395	·0002388915
4187	53.79	17530969	73402167203	64·7070321	16·1176228	·0002388345
4188	$2^2.3.349$	17539344	73454772672	64·7147587	16·1189058	·0002387775
4189	59.71	17547721	73507403269	64·7224845	16·1201887	·0002387205
4190	2.5.419	17556100	73560059000	64·7302093	16·1214713	·0002386635
4191	3.11.127	17564481	73612739871	64·7379332	16·1227537	·0002386065
4192	$2^5.131$	17572864	73665445888	64·7456562	16·1240359	·0002385496
4193	7.599	17581249	73718177057	64·7533783	16·1253180	·0002384927
4194	$2.3^2.233$	17589636	73770933384	64·7610994	16·1265998	·0002384359
4195	5.839	17598025	73823714875	64·7688197	16·1278814	·0002383790
4196	$2^2.1049$	17606416	73876521536	64·7765390	16·1291628	·0002383222
4197	3.1399	17614809	73929353373	64·7842574	16·1304440	·0002382654
4198	2.2099	17623204	73982210392	64·7919748	16·1317250	·0002382087
4199	13.17.19	17631601	74035092599	64·7996914	16·1330058	·0002381519

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4200	$2^3.3.5^2.7$	17640000	74088000000	64·8074070	16·1342864	·0002380952
4201	.....	17648401	74140932601	64·8151217	16·1355669	·0002380386
4202	2.11.191	17656804	74193890408	64·8228355	16·1368470	·0002379819
4203	$3^2.467$	17665209	74246873427	64·8305484	16·1381270	·0002379253
4204	$2^2.1051$	17673616	74299881664	64·8382603	16·1394068	·0002378687
4205	5.29^2	17682025	74352915125	64·8459714	16·1406864	·0002378121
4206	2.3.701	17690436	74405973816	64·8536815	16·1419658	·0002377556
4207	7.601	17698849	74459057743	64·8613907	16·1432450	·0002376991
4208	$2^4.263$	17707264	74512166912	64·8690990	16·1445240	·0002376426
4209	3.23.61	17715681	74565301329	64·8768064	16·1458027	·0002375861
4210	2.5.421	17724100	74618461000	64·8845128	16·1470813	·0002375297
4211	.....	17732521	74671645931	64·8922184	16·1483597	·0002374733
4212	$2^2.3^4.13$	17740944	74724856128	64·8999230	16·1496378	·0002374169
4213	11.383	17749369	74778091597	64·9076267	16·1509158	·0002373606
4214	$2.7^2.43$	17757796	74831352344	64·9153294	16·1521935	·0002373042
4215	3.5.281	17766225	74884638375	64·9230313	16·1534711	·0002372479
4216	$2^3.17.31$	17774656	74937949696	64·9307323	16·1547485	·0002371917
4217	.....	17783089	74991286313	64·9384324	16·1560257	·0002371354
4218	2.3.19.37	17791524	75044648232	64·9461315	16·1573026	·0002370792
4219	.....	17799961	75098035459	64·9538297	16·1585794	·0002370230
4220	$2^2.5.211$	17808400	75151448000	64·9615271	16·1598559	·0002369668
4221	$3^2.7.67$	17816841	75204885861	64·9692235	16·1611323	·0002369107
4222	2.2111	17825284	75258349048	64·9769190	16·1624084	·0002368546
4223	41.103	17833729	75311837567	64·9846136	16·1636844	·0002367985
4224	$2^7.3.11$	17842176	75365351424	64·9923072	16·1649601	·0002367424
4225	$5^2.13^2$	17850625	75418890625	65·0000000	16·1662356	·0002366864
4226	2.2113	17859076	75472455176	65·0076919	16·1675110	·0002366304
4227	3.1409	17867529	75526045083	65·0153828	16·1687861	·0002365744
4228	$2^2.7.151$	17875984	75579660352	65·0230728	16·1700610	·0002365184
4229	.....	17884441	75633300989	65·0307619	16·1713358	·0002364625
4230	$2.3^2.5.47$	17892900	75686967000	65·0384502	16·1726103	·0002364066
4231	.....	17901361	75740658391	65·0461375	16·1738847	·0002363507
4232	$2^3.23^2$	17909824	75794375168	65·0538239	16·1751588	·0002362949
4233	3.17.83	17918289	75848117337	65·0615094	16·1764327	·0002362391
4234	2.29.73	17926756	75901884904	65·0691940	16·1777065	·0002361833
4235	$5.7.11^2$	17935225	75955677875	65·0768777	16·1789800	·0002361275
4236	$2^2.3.353$	17943696	76009496256	65·0845604	16·1802533	·0002360718
4237	19.223	17952169	76063340053	65·0922423	16·1815265	·0002360160
4238	2.13.163	17960644	76117209272	65·0999232	16·1827994	·0002359604
4239	$3^3.157$	17969121	76171103919	65·1076032	16·1840721	·0002359047
4240	$2^4.5.53$	17977600	76225024000	65·1152824	16·1853446	·0002358491
4241	.....	17986081	76278969521	65·1229606	16·1866170	·0002357934
4242	2.3.7.101	17994564	76332940488	65·1306379	16·1878891	·0002357379
4243	.....	18003049	76386936907	65·1383143	16·1891611	·0002356823
4244	$2^2.1061$	18011536	76440958784	65·1459898	16·1904328	·0002356268
4245	3.5.283	18020025	76495006125	65·1536645	16·1917043	·0002355713
4246	2.11.193	18028516	76549078936	65·1613382	16·1929757	·0002355158
4247	31.137	18037009	76603177223	65·1690110	16·1942468	·0002354603
4248	$2^3.3^2.59$	18045504	76657300992	65·1766829	16·1955177	·0002354049
4249	7.607	18054001	76711450249	65·1843539	16·1967885	·0002353495
4250	$2.5^3.17$	18062500	76765625000	65·1920240	16·1980590	·0002352941
4251	3.13.109	18071001	76819825251	65·1996932	16·1993294	·0002352388
4252	$2^2.1063$	18079504	76874051008	65·2073615	16·2005995	·0002351834
4253	.....	18088009	76928302277	65·2150289	16·2018694	·0002351281
4254	2.3.709	18096516	76982579064	65·2226954	16·2031392	·0002350729
4255	5.23.37	18105025	77036881375	65·2303610	16·2044087	·0002350176
4256	$2^5.7.19$	18113536	77091209216	65·2380257	16·2056781	·0002349624
4257	$3^2.11.43$	18122049	77145562593	65·2456895	16·2069472	·0002349072
4258	2.2129	18130564	77199941512	65·2533524	16·2082161	·0002348520
4259	.....	18139081	77254345979	65·2610144	16·2094849	·0002347969

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4260	$2^2.3.5.71$	18147600	77308776000	65·2686755	16·2107534	·0002347418
4261	.....	18156121	77363231581	65·2763357	16·2120217	·0002346867
4262	2.2131	18164644	77417712728	65·2839950	16·2132899	·0002346316
4263	$3.7^2.29$	18173169	77472219447	65·2916534	16·2145578	·0002345766
4264	$2^3.13.41$	18181696	77526751744	65·2993109	16·2158256	·0002345216
4265	5.853	18190225	77581309625	65·3069675	16·2170931	·0002344666
4266	$2.3^2.79$	18198756	77635893096	65·3146232	16·2183605	·0002344116
4267	17.251	18207289	77690502163	65·3222779	16·2196276	·0002343567
4268	$2^2.11.97$	18215824	77745136832	65·3299318	16·2208946	·0002343018
4269	3.1423	18224361	77799797109	65·3375848	16·2221614	·0002342469
4270	2.5.7.61	18232900	77854483000	65·3452369	16·2234279	·0002341920
4271	.....	18241441	77909194511	65·3528882	16·2246943	·0002341372
4272	$2^4.3.89$	18249984	77963931648	65·3605385	16·2259605	·0002340824
4273	.....	18258529	78018694417	65·3681879	16·2272265	·0002340276
4274	2.2137	18267076	78073482824	65·3758365	16·2284922	·0002339729
4275	$3^2.5^2.19$	18275625	78128296875	65·3834842	16·2297578	·0002339181
4276	$2^2.1069$	18284176	78183136576	65·3911309	16·2310232	·0002338634
4277	7.13.47	18292729	78238001933	65·3987767	16·2322883	·0002338087
4278	2.3.23.31	18301284	78292892952	65·4064217	16·2335533	·0002337541
4279	11.389	18309841	78347809639	65·4140658	16·2348181	·0002336995
4280	$2^3.5.107$	18318400	78402752000	65·4217089	16·2360827	·0002336449
4281	3.1427	18326961	78457720041	65·4293512	16·2373472	·0002335903
4282	2.2141	18335524	78512713768	65·4369926	16·2386113	·0002335357
4283	.....	18344089	78567733187	65·4446331	16·2398753	·0002334812
4284	$2^2.3^2.7.17$	18352656	78622778304	65·4522727	16·2411391	·0002334267
4285	5.857	18361225	78677849125	65·4599114	16·2424028	·0002333722
4286	2.2143	18369796	78732945656	65·4675492	16·2436662	·0002333178
4287	3.1429	18378369	78788067903	65·4751861	16·2449294	·0002332634
4288	$2^6.67$	18386944	78843215872	65·4828222	16·2461924	·0002332090
4289	.....	18395521	78898389569	65·4904573	16·2474552	·0002331546
4290	2.3.5.11.13	18404100	78953589000	65·4980916	16·2487178	·0002331002
4291	7.613	18412681	79008814171	65·5057250	16·2499803	·0002330459
4292	$2^2.29.37$	18421264	79064065088	65·5133574	16·2512425	·0002329916
4293	$3^4.53$	18429849	79119341757	65·5209890	16·2525045	·0002329373
4294	2.19.113	18438436	79174644184	65·5286197	16·2537664	·0002328831
4295	5.859	18447025	79229972375	65·5362495	16·2550280	·0002328289
4296	$2^3.3.179$	18455616	79285326336	65·5438785	16·2562895	·0002327747
4297	.....	18464209	79340706073	65·5515065	16·2575507	·0002327205
4298	2.7.307	18472804	79396111592	65·5591337	16·2588118	·0002326664
4299	3.1433	18481401	79451542899	65·5667599	16·2600726	·0002326122
4300	$2^2.5^2.43$	18490000	79507000000	65·5743853	16·2613333	·0002325581
4301	11.17 23	18498601	79562482901	65·5820098	16·2625938	·0002325041
4302	$2.3^2.239$	18507204	79617991608	65·5896333	16·2638540	·0002324500
4303	13.331	18515809	79673526127	65·5972560	16·2651141	·0002323960
4304	$2^4.269$	18524416	79729086464	65·6048778	16·2663740	·0002323420
4305	3.5.7.41	18533025	79784672625	65·6124988	16·2676337	·0002322880
4306	2.2153	18541636	79840284616	65·6201188	16·2688932	·0002322341
4307	59.73	18550249	79895922443	65·6277380	16·2701525	·0002321802
4308	$2^2.3.359$	18558864	79951586112	65·6353563	16·2714116	·0002321263
4309	31.139	18567481	80007275629	65·6429737	16·2726705	·0002320724
4310	2.5.431	18576100	80062991000	65·6505902	16·2739292	·0002320186
4311	$3^2.479$	18584721	80118732231	65·6582059	16·2751878	·0002319647
4312	$2^3.7^2.11$	18593344	80174499328	65·6658206	16·2764461	·0002319109
4313	19.227	18601969	80230292297	65·6734345	16·2777042	·0002318572
4314	2.3.719	18610596	80286111144	65·6810475	16·2789622	·0002318034
4315	5.863	18619225	80341955875	65·6886596	16·2802199	·0002317497
4316	$2^2.13.83$	18627856	80397826496	65·6962708	16·2814775	·0002316960
4317	3.1439	18636489	80453723013	65·7038811	16·2827348	·0002316423
4318	2.17.127	18645124	80509645432	65·7114906	16·2839920	·0002315887
4319	7.617	18653761	80565593759	65·7190992	16·2852489	·0002315351

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4320	$2^5.3^3.5$	18662400	80621568000	65·7267069	16·2865057	·0002314815
4321	29.149	18671041	80677568161	65·7343137	16·2877623	·0002314279
4322	2.2161	18679684	80733594248	65·7419197	16·2890187	·0002313744
4323	3.11.131	18688329	80789646267	65·7495247	16·2902748	·0002313208
4324	$2^2.23.47$	18696976	80845724224	65·7571289	16·2915308	·0002312673
4325	$5^2.173$	18705625	80901828125	65·7647322	16·2927866	·0002312139
4326	2.3.7.103	18714276	80957957976	65·7723346	16·2940422	·0002311604
4327	.....	18722929	81014113783	65·7799362	16·2952977	·0002311070
4328	$2^3.541$	18731584	81070295552	65·7875368	16·2965529	·0002310536
4329	$3^2.13.37$	18740241	81126503289	65·7951366	16·2978079	·0002310002
4330	2.5.433	18748900	81182737000	65·8027355	16·2990628	·0002309469
4331	61.71	18757561	81238996691	65·8103336	16·3003174	·0002308936
4332	$2^2.3.19^2$	18766224	81295282368	65·8179307	16·3015719	·0002308403
4333	7.619	18774889	81351594037	65·8255270	16·3028261	·0002307870
4334	2.11.197	18783556	81407931704	65·8331224	16·3040802	·0002307337
4335	$3.5.17^2$	18792225	81464295375	65·8407169	16·3053341	·0002306805
4336	$2^4.271$	18800896	81520685056	65·8483106	16·3065878	·0002306273
4337	.....	18809569	81577100753	65·8559033	16·3078412	·0002305741
4338	$2.3^2.241$	18818244	81633542472	65·8634952	16·3090945	·0002305210
4339	.....	18826921	81690010219	65·8710862	16·3103476	·0002304679
4340	$2^2.5.7.31$	18835600	81746504000	65·8786763	16·3116005	·0002304148
4341	3.1447	18844281	81803023821	65·8862656	16·3128532	·0002303617
4342	2.13.167	18852964	81859569688	65·8938540	16·3141057	·0002303086
4343	43.101	18861649	81916141607	65·9014415	16·3153581	·0002302556
4344	$2^3.3.181$	18870336	81972739584	65·9090282	16·3166102	·0002302026
4345	5.11.79	18879025	82029363625	65·9166139	16·3178622	·0002301496
4346	2.41.53	18887716	82086013736	65·9241988	16·3191139	·0002300966
4347	$3^3.7.23$	18896409	82142689923	65·9317829	16·3203655	·0002300437
4348	$2^2.1087$	18905104	82199392192	65·9393661	16·3216169	·0002299908
4349	.....	18913801	82256120549	65·9469484	16·3228680	·0002299379
4350	$2.3.5^2.29$	18922500	82312875000	65·9545298	16·3241190	·0002298851
4351	19.229	18931201	82369655551	65·9621103	16·3253698	·0002298322
4352	$2^6.17$	18939904	82426462208	65·9696900	16·3266204	·0002297794
4353	3.1451	18948609	82483294977	65·9772688	16·3278708	·0002297266
4354	2.7.311	18957316	82540153864	65·9848467	16·3291211	·0002296739
4355	5.13.67	18966025	82597038875	65·9924238	16·3303711	·0002296211
4356	$2^2.3^2.11^2$	18974736	82653950016	66·0000000	16·3316209	·0002295684
4357	.....	18983449	82710887293	66·0075753	16·3328705	·0002295157
4358	2.2179	18992164	82767850712	66·0151498	16·3341200	·0002294631
4359	3.1453	19000881	82824840279	66·0227234	16·3353693	·0002294104
4360	$2^3.5.109$	19009600	82881856000	66·0302961	16·3366184	·0002293578
4361	$7^2.89$	19018321	82938897881	66·0378679	16·3378672	·0002293052
4362	2.3.727	19027044	82995965928	66·0454389	16·3391159	·0002292526
4363	.....	19035769	83053060147	66·0530090	16·3403644	·0002292001
4364	2.1091	19044496	83110180544	66·0605783	16·3416127	·0002291476
4365	$3^2.5.97$	19053225	83167327125	66·0681466	16·3428609	·0002290951
4366	2.37.59	19061956	83224499896	66·0757141	16·3441088	·0002290426
4367	11.397	19070689	83281698863	66·0832808	16·3453565	·0002289902
4368	$2^4.3.7.13$	19079424	83338924032	66·0908465	16·3466041	·0002289377
4369	17.257	19088161	83396175409	66·0984114	16·3478514	·0002288853
4370	2.5.19.23	19096900	83453453000	66·1059755	16·3490986	·0002288330
4371	3.31.47	19105641	83510756811	66·1135387	16·3503456	·0002287806
4372	$2^2.1093$	19114384	83568086848	66·1211010	16·3515923	·0002287283
4373	.....	19123129	83625443117	66·1286625	16·3528389	·0002286760
4374	2.37	19131876	83682825624	66·1362231	16·3540853	·0002286237
4375	$5^4.7$	19140625	83740234375	66·1437828	16·3553315	·0002285714
4376	$2^3.547$	19149376	83797669376	66·1513416	16·3565776	·0002285192
4377	3.1459	19158129	83855130633	66·1588996	16·3578234	·0002284670
4378	2.11.199	19166884	83912618152	66·1664567	16·3590691	·0002284148
4379	29.151	19175641	83970131939	66·1740130	16·3603146	·0002283626

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4380	$2^2.3.5.73$	19184400	84027672000	66·1815684	16·3615598	·0002283105
4381	13.337	19193161	84085238341	66·1891230	16·3628049	·0002282584
4382	2.7.313	19201924	84142830968	66·1966767	16·3640498	·0002282063
4383	$3^2.487$	19210689	84200449887	66·2042295	16·3652945	·0002281542
4384	$2^5.137$	19219456	84258095104	66·2117814	16·3665390	·0002281022
4385	5.877	19228225	84315766625	66·2193325	16·3677833	·0002280502
4386	2.3.17.43	19236996	84373464456	66·2268827	16·3690274	·0002279982
4387	41.107	19245769	84431188603	66·2344321	16·3702714	·0002279462
4388	$2^2.1097$	19254544	84488939072	66·2419806	16·3715151	·0002278943
4389	3.7.11.19	19263321	84546715869	66·2495283	16·3727587	·0002278423
4390	2.5.439	19272100	84604519000	66·2570751	16·3740021	·0002277904
4391	.....	19280881	84662348471	66·2646210	16·3752452	·0002277386
4392	$2^3.3^2.61$	19289664	84720204288	66·2721661	16·3764882	·0002276867
4393	23.191	19298449	84778086457	66·2797103	16·3777310	·0002276349
4394	2.13^2	19307236	84835994984	66·2872537	16·3789737	·0002275831
4395	3.5.293	19316025	84893929875	66·2947962	16·3802161	·0002275313
4396	$2^2.7.157$	19324816	84951891136	66·3023378	16·3814583	·0002274795
4397	.....	19333609	85009878773	66·3098786	16·3827004	·0002274278
4398	2.3.733	19342404	85067892792	66·3174185	16·3839422	·0002273761
4399	53.83	19351201	85125933199	66·3249576	16·3851839	·0002273244
4400	$2^4.5^2.11$	19360000	85184000000	66·3324958	16·3864254	·0002272727
4401	$3^3.163$	19368801	85242093201	66·3400332	16·3876667	·0002272211
4402	2.31.71	19377604	85300212808	66·3475696	16·3889078	·0002271695
4403	7.17.37	19386409	85358358827	66·3551053	16·3901488	·0002271179
4404	$2^2.3.367$	19395216	85416531264	66·3626401	16·3913895	·0002270663
4405	5.881	19404025	85474730125	66·3701740	16·3926301	·0002270148
4406	2.2203	19412836	85532955416	66·3777071	16·3938704	·0002269632
4407	3.13.113	19421649	85591207143	66·3852393	16·3951106	·0002269117
4408	$2^3.19.29$	19430464	85649485312	66·3927707	16·3963506	·0002268603
4409	.....	19439281	85707789929	66·4003012	16·3975904	·0002268088
4410	$2.3^2.5.7^2$	19448100	85766121000	66·4078309	16·3988299	·0002267574
4411	11.401	19456921	85824478531	66·4153597	16·4000694	·0002267060
4412	$2^2.1103$	19465744	85882862528	66·4228876	16·4013086	·0002266546
4413	3.1471	19474569	85941272997	66·4304147	16·4025477	·0002266032
4414	2.2207	19483396	85999709944	66·4379409	16·4037865	·0002265519
4415	5.883	19492225	86058173375	66·4454663	16·4050252	·0002265006
4416	$2^6.3.23$	19501056	86116663296	66·4529909	16·4062637	·0002264493
4417	7.631	19509889	86175179713	66·4605145	16·4075020	·0002263980
4418	2.47^2	19518724	86233722632	66·4680374	16·4087401	·0002263468
4419	$3^2.491$	19527561	86292292059	66·4755594	16·4099780	·0002262955
4420	$2^2.5.13.17$	19536400	86350888000	66·4830806	16·4112158	·0002262443
4421	.....	19545241	86409510461	66·4906008	16·4124533	·0002261932
4422	2.3.11.67	19554084	86468159448	66·4981203	16·4136907	·0002261420
4423	.....	19562929	86526834967	66·5056389	16·4149279	·0002260909
4424	$2^3.7.79$	19571776	86585537024	66·5131566	16·4161649	·0002260398
4425	$3.5^2.59$	19580625	86644265625	66·5206735	16·4174017	·0002259887
4426	2.2213	19589476	86703020776	66·5281895	16·4186383	·0002259376
4427	19.233	19598329	86761802483	66·5357047	16·4198748	·0002258866
4428	$2^2.3^2.41$	19607184	86820610752	66·5432190	16·4211110	·0002258356
4429	43.103	19616041	86879445589	66·5507325	16·4223471	·0002257846
4430	2.5.443	19624900	86938307000	66·5582452	16·4235830	·0002257336
4431	3.7.211	19633761	86997194991	66·5657570	16·4248187	·0002256827
4432	$2^4.277$	19642624	87056109568	66·5732679	16·4260542	·0002256318
4433	11.13.31	19651489	87115050737	66·5807780	16·4272895	·0002255809
4434	2.3.739	19660356	87174018504	66·5882873	16·4285246	·0002255300
4435	5.887	19669225	87233012875	66·5957957	16·4297595	·0002254791
4436	$2^2.1109$	19678096	87292033856	66·6033032	16·4309943	·0002254283
4437	$3^2.17.29$	19686969	87351081453	66·6108099	16·4322288	·0002253775
4438	2.7.317	19695844	87410155672	66·6183158	16·4334632	·0002253267
4439	23.193	19704721	87469256519	66·6258208	16·4346975	·0002252760

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4440	$2^3.3.5.37$	19713600	87528384000	66·6333250	16·4359315	·0002252252
4441	.....	19722481	87587538121	66·6408283	16·4371653	·0002251745
4442	2.2221	19731364	87646718888	66·6483308	16·4383990	·0002251238
4443	3.1481	19740249	87705926307	66·6558324	16·4396324	·0002250731
4444	$2^2.11.101$	19749136	87765160384	66·6633332	16·4408657	·0002250225
4445	5.7.127	19758025	87824421125	66·6708332	16·4420988	·0002249719
4446	$2.3^2.13.19$	19766916	87883708536	66·6783323	16·4433317	·0002249213
4447	.....	19775809	87943022623	66·6858306	16·4445645	·0002248707
4448	$2^6.139$	19784704	88002363392	66·6933280	16·4457970	·0002248201
4449	3.1483	19793601	88061730849	66·7008246	16·4470294	·0002247696
4450	$2.5^2.89$	19802500	88121125000	66·7083203	16·4482616	·0002247191
4451	.....	19811401	88180545851	66·7158152	16·4494936	·0002246686
4452	$2^2.3.7.53$	19820304	88239993408	66·7233093	16·4507254	·0002246181
4453	61.73	19829209	88299467677	66·7308025	16·4519570	·0002245677
4454	2.17.131	19838116	88358968664	66·7382949	16·4531884	·0002245173
4455	$3^4.5.11$	19847025	88418496375	66·7457864	16·4544197	·0002244669
4456	$2^3.557$	19855936	88478050816	66·7532771	16·4556507	·0002244165
4457	.....	19864849	88537631993	66·7607669	16·4568816	·0002243662
4458	2.3.743	19873764	88597239912	66·7682559	16·4581123	·0002243158
4459	$7^3.13$	19882681	88656874579	66·7757441	16·4593428	·0002242655
4460	$2^2.5$ 223	19891600	88716536000	66·7832314	16·4605732	·0002242152
4461	3.1487	19900521	88776224181	66·7907179	16·4618033	·0002241650
4462	2.23.97	19909444	88835939128	66·7982036	16·4630333	·0002241147
4463	.....	19918369	88895680847	66·8056884	16·4642631	·0002240645
4464	$2^4.3^2.31$	19927296	88955449344	66·8131724	16·4654926	·0002240143
4465	5.19.47	19936225	89015244625	66·8206555	16·4667220	·0002239642
4466	2.7.11.29	19945156	89075066696	66·8281378	16·4679513	·0002239140
4467	3.1489	19954089	89134915563	66·8356193	16·4691803	·0002238639
4468	$2^2.1117$	19963024	89194791232	66·8430999	16·4704092	·0002238138
4469	41.109	19971961	89254693709	66·8505797	16·4716378	·0002237637
4470	2 3.5.149	19980900	89314623000	66·8580586	16·4728663	·0002237136
4471	17.263	19989841	89374579111	66·8655367	16·4740947	·0002236636
4472	$2^3.13.43$	19998784	89434562048	66·8730139	16·4753228	·0002236136
4473	$3^2.7.71$	20007729	89494571817	66·8804904	16·4765507	·0002235636
4474	2.2237	20016676	89554608424	66·8879660	16·4777785	·0002235136
4475	$5^2.179$	20025625	89614671875	66·8954408	16·4790061	·0002234637
4476	$2^2.3.373$	20034576	89674762176	66·9029147	16·4802335	·0002234138
4477	$11^2.37$	20043529	89734879333	66·9103878	16·4814607	·0002233639
4478	2.2239	20052484	89795023352	66·9178601	16·4826877	·0002233140
4479	3.1493	20061441	89855194239	66·9253315	16·4839146	·0002232641
4480	27.5.7	20070400	89915392000	66·9328021	16·4851413	·0002232143
4481	.....	20079361	89975616641	66·9402719	16·4863677	·0002231645
4482	$2.3^3.83$	20088324	90035868168	66·9477408	16·4875940	·0002231147
4483	.....	20097289	90096146587	66·9552089	16·4888201	·0002230649
4484	$2^2.19.59$	20106256	90156451904	66·9626762	16·4900460	·0002230152
4485	3.5.13.23	20115225	90216784125	66·9701426	16·4912718	·0002229654
4486	2.2243	20124196	90277143256	66·9776082	16·4924974	·0002229157
4487	7.641	20133169	90337529303	66·9850730	16·4937228	·0002228661
4488	$2^3.3.11.17$	20142144	90397942272	66·9925369	16·4949479	·0002228164
4489	67^2	20151121	90458382169	67·0000000	16·4961730	·0002227668
4490	2.5.449	20160100	90518849000	67·0074623	16·4973978	·0002227171
4491	$3^2.499$	20169081	90579342771	67·0149237	16·4986225	·0002226676
4492	$2^2.1123$	20178064	90639863488	67·0223843	16·4998469	·0002226180
4493	.....	20187049	90700411157	67·0298441	16·5010712	·0002225684
4494	2.3.7.107	20196036	90760985784	67·0373031	16·5022954	·0002225189
4495	5.29.31	20205025	90821587375	67·0447612	16·5035193	·0002224694
4496	$2^4.281$	20214016	90882215936	67·0522185	16·5047431	·0002224199
4497	3.1499	20223009	90942871473	67·0596749	16·5059666	·0002223705
4498	2.13.173	20232004	91003553992	67·0671306	16·5071900	·0002223210
4499	11.409	20241001	91064263499	67·0745854	16·5084132	·0002222716

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4500	$2^2.3^2.5^3$	20250000	91125000000	67·0820393	16·5096363	·0002222222
4501	7.643	20259001	91185763501	67·0894924	16·5108591	·0002221729
4502	2.2251	20268004	91246554008	67·0969447	16·5120818	·0002221235
4503	3.19.79	20277009	91307371527	67·1043962	16·5133043	·0002220742
4504	$2^3.563$	20286016	91368216064	67·1118469	16·5145266	·0002220249
4505	5.17.53	20295025	91429087625	67·1192967	16·5157487	·0002219756
4506	2.3.751	20304036	91489986216	67·1267458	16·5169706	·0002219263
4507	.....	20313049	91550911843	67·1341939	16·5181924	·0002218771
4508	$2^2.7^2.23$	20322064	91611864512	67·1416413	16·5194140	·0002218279
4509	$3^3.167$	20331081	91672844229	67·1490879	16·5206354	·0002217787
4510	2.5.11.41	20340100	91733851000	67·1565335	16·5218566	·0002217295
4511	13.347	20349121	91794884831	67·1639784	16·5230776	·0002216803
4512	$2^6.3.47$	20358144	91855945728	67·1714225	16·5242985	·0002216312
4513	.....	20367169	91917033697	67·1788657	16·5255191	·0002215821
4514	2.37.61	20376196	91978148744	67·1863081	16·5267396	·0002215330
4515	3.5.7.43	20385225	92039290875	67·1937494	16·5279597	·0002214839
4516	$2^2.1129$	20394256	92100460096	67·2011905	16·5291801	·0002214349
4517	.....	20403289	92161656413	67·2086304	16·5304000	·0002213859
4518	$2.3^2.251$	20412324	92222879832	67·2160695	16·5316198	·0002213369
4519	.....	20421361	92284130359	67·2235078	16·5328394	·0002212879
4520	$2^3.5.113$	20430400	92345408000	67·2309452	16·5340588	·0002212389
4521	3.11.137	20439441	92406712761	67·2383819	16·5352781	·0002211900
4522	2.7.17.19	20448484	92468044648	67·2458177	16·5364971	·0002211411
4523	.....	20457529	92529403667	67·2532527	16·5377160	·0002210922
4524	$2^2.3.13.29$	20466576	92590789824	67·2606868	16·5389347	·0002210433
4525	$5^2.181$	20475625	92652203125	67·2681202	16·5401532	·0002209945
4526	2.31.73	20484676	92713643576	67·2755527	16·5413716	·0002209456
4527	$3^2.503$	20493729	92775111183	67·2829845	16·5425897	·0002208968
4528	$2^4.283$	20502784	92836605952	67·2904154	16·5438077	·0002208481
4529	7.647	20511841	92898127889	67·2978454	16·5450255	·0002207993
4530	2.3.5.151	20520900	92959677000	67·3052747	16·5462431	·0002207506
4531	23.197	20529961	93021253291	67·3127031	16·5474606	·0002207018
4532	$2^2.11.103$	20539024	93082856768	67·3201307	16·5486778	·0002206531
4533	3.1511	20548089	93144487437	67·3275575	16·5498949	·0002206045
4534	2.2267	20557156	93206145304	67·3349835	16·5511118	·0002205558
4535	5.907	20566225	93267830375	67·3424086	16·5523285	·0002205072
4536	$2^3.3^4.7$	20575296	93329542656	67·3498330	16·5535451	·0002204586
4537	13.349	20584369	93391282153	67·3572565	16·5547615	·0002204100
4538	2.2269	20593444	93453048872	67·3646792	16·5559777	·0002203614
4539	3.17.89	20602521	93514842819	67·3721011	16·5571937	·0002203128
4540	$2^2.5.227$	20611600	93576664000	67·3795221	16·5584095	·0002202643
4541	19.239	20620681	93638512421	67·3869424	16·5596251	·0002202158
4542	2.3.757	20629764	93700388088	67·3943618	16·5608406	·0002201673
4543	7.11.59	20638849	93762291007	67·4017804	16·5620559	·0002201189
4544	$2^6.71$	20647936	93824221184	67·4091982	16·5632709	·0002200704
4545	$3^2.5.101$	20657025	93886178625	67·4166152	16·5644859	·0002200220
4546	2.2273	20666116	93948163336	67·4240313	16·5657007	·0002199736
4547	.....	20675209	94010175323	67·4314466	16·5669153	·0002199252
4548	$2^2.3.379$	20684304	94072214592	67·4388612	16·5681297	·0002198769
4549	.....	20693401	94134281149	67·4462749	16·5693439	·0002198285
4550	$2.5^2.7.13$	20702500	94196375000	67·4536878	16·5705580	·0002197802
4551	3.37.41	20711601	94258496151	67·4610999	16·5717719	·0002197319
4552	$2^3.569$	20720704	94320644608	67·4685111	16·5729856	·0002196837
4553	29.157	20729809	94382820377	67·4759216	16·5741991	·0002196354
4554	$2.3^2.11.23$	20738916	94445023464	67·4833313	16·5754124	·0002195872
4555	5.911	20748025	94507253875	67·4907401	16·5766256	·0002195390
4556	$2^2.17.67$	20757136	94569511616	67·4981481	16·5778386	·0002194908
4557	$3.7^2.31$	20766249	94631796693	67·5055553	16·5790514	·0002194426
4558	2.43.53	20775364	94694109112	67·5129617	16·5802640	·0002193945
4559	47.97	20784481	94756448879	67·5203673	16·5814764	·0002193463

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu oots	Reciprocals.
4560	$2^4.3.5.19$	20793600	94818816000	67·5277720	16·5826887	·0002192982
4561	.....	20802721	94881210481	67·5351760	16·5839008	·0002192502
4562	2.2281	20811844	94943632328	67·5425792	16·5851127	·0002192021
4563	$3^3.13^2$	20820969	95006081547	67·5499815	16·5863245	·0002191541
4564	$2^2.7.163$	20830096	95068558144	67·5573830	16·5875360	·0002191060
4565	5.11.83	20839225	95131062125	67·5647837	16·5887474	·0002190581
4566	2.3.761	20848356	95193593496	67·5721836	16·5899586	·0002190101
4567	.....	20857489	95256152263	67·5795827	16·5911696	·0002189621
4568	$2^3.571$	20866624	95318738432	67·5869810	16·5923805	·0002189142
4569	3.1523	20875761	95381352009	67·5943785	16·5935912	·0002188663
4570	2.5.457	20884900	95443993000	67·6017751	16·5948016	·0002188184
4571	7.653	20894041	95506661411	67·6091710	16·5960120	·0002187705
4572	$2^2.3^2.127$	20903184	95569357248	67·6165660	16·5972221	·0002187228
4573	17.269	20912329	95632080517	67·6239603	16·5984320	·0002186748
4574	2.2287	20921476	95694831224	67·6313537	16·5996418	·0002186270
4575	$3.5^2.61$	20930625	95757609375	67·6387463	16·6008514	·0002185792
4576	$2^5.11.13$	20939776	95820414976	67·6461381	16·6020609	·0002185315
4577	23.199	20948929	95883248033	67·6535291	16·6032701	·0002184837
4578	2.3.7.109	20958084	95946108552	67·6609193	16·6044792	·0002184360
4579	19.241	20967241	96008996539	67·6683087	16·6056882	·0002183883
4580	$2^2.5.229$	20976400	96071912000	67·6756973	16·6068969	·0002183406
4581	$3^3.509$	20985561	96134854941	67·6830850	16·6081055	·0002182929
4582	2.29.79	20994724	96197825368	67·6904720	16·6093139	·0002182453
4583	.....	21003889	96260823287	67·6978581	16·6105221	·0002181977
4584	$2^3.3.191$	21013056	96323848704	67·7052435	16·6117302	·0002181501
4585	5.7.131	21022225	96386901625	67·7126280	16·6129381	·0002181025
4586	2.2293	21031396	96449982056	67·7200117	16·6141458	·0002180549
4587	3.11.139	21040569	96513090003	67·7273947	16·6153533	·0002180074
4588	$2^2.31.37$	21049744	96576225472	67·7347768	16·6165606	·0002179599
4589	13.353	21058921	96639388469	67·7421582	16·6177677	·0002179124
4590	$2.3^2.5.17$	21068100	96702579000	67·7495387	16·6189747	·0002178649
4591	.....	21077281	96765797071	67·7569185	16·6201815	·0002178175
4592	$2^4.7.41$	21086464	96829042688	67·7642974	16·6213881	·0002177700
4593	3.1531	21095649	96892315857	67·7716755	16·6225946	·0002177226
4594	2.2297	21104836	96955616584	67·7790528	16·6238009	·0002176752
4595	5.919	21114025	97018944875	67·7864293	16·6250070	·0002176279
4596	$2^2.3.383$	21123216	97082300736	67·7938050	16·6262130	·0002175805
4597	.....	21132409	97145684173	67·8011799	16·6274187	·0002175332
4598	$2.11^2.19$	21141604	97209095192	67·8085540	16·6286243	·0002174859
4599	$3^2.7.73$	21150801	97272533799	67·8159273	16·6298297	·0002174386
4600	$2^3.5^2.23$	21160000	97336000000	67·8232998	16·6310350	·0002173913
4601	43.107	21169201	97399493801	67·8306715	16·6322401	·0002173441
4602	2.3.13.59	21178404	97463015208	67·8380424	16·6334449	·0002172968
4603	.....	21187609	97526564227	67·8454125	16·6346497	·0002172496
4604	$2^2.1151$	21196816	97590140864	67·8527818	16·6358542	·0002172024
4605	3.5.307	21206025	97653745125	67·8601503	16·6370585	·0002171553
4606	$2.7^2.47$	21215236	97717377016	67·8675180	16·6382627	·0002171081
4607	17.271	21224449	97781036543	67·8748849	16·6394667	·0002170610
4608	$2^9.3^2$	21233664	97844723712	67·8822510	16·6406706	·0002170139
4609	11.419	21242881	97908438529	67·8896163	16·6418743	·0002169668
4610	2.5.461	21252100	97972181000	67·8969808	16·6430778	·0002169197
4611	3.29.53	21261321	98035951131	67·9043445	16·6442811	·0002168727
4612	$2^2.1153$	21270544	98099748928	67·9117074	16·6454842	·0002168257
4613	7.659	21279769	98163574397	67·9190695	16·6466872	·0002167787
4614	2.3.769	21288996	98227427544	67·9264308	16·6478900	·0002167317
4615	5 13.71	21298225	98291308375	67·9337913	16·6490926	·0002166847
4616	$2^3.577$	21307456	98355216896	67·9411510	16·6502950	·0002166378
4617	$3^3.19$	21316689	98419153113	67·9485099	16·6514973	·0002165909
4618	2.2309	21325924	98483117032	67·9558680	16·6526994	·0002165440
4619	31.149	21335161	98547108659	67·9632253	16·6539014	·0002164971

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4620	$2^2.3.5.7.11$	21344400	98611128000	67·9705818	16·6551031	·0002164502
4621	.....	21353641	98675175061	67·9779375	16·6563047	·0002164034
4622	2.2311	21362884	98739249848	67·9852924	16·6575061	·0002163566
4623	3.23.67	21372129	98803352367	67·9926466	16·6587073	·0002163098
4624	$2^4.17^2$	21381376	98867482624	68·0000000	16·6599085	·0002162630
4625	$5^3.37$	21390625	98931640625	68·0073529	16·6611092	·0002162162
4626	$2.3^2.257$	21399876	98995826376	68·0147043	16·6623100	·0002161695
4627	7.661	21409129	99060039883	68·0220552	16·6635105	·0002161228
4628	$2^2.13.89$	21418384	99124281152	68·0294054	16·6647109	·0002160761
4629	3.1543	21427641	99188550189	68·0367547	16·6659111	·0002160294
4630	2.5.463	21436900	99252847000	68·0441033	16·6671111	·0002159827
4631	11.421	21446161	99317171591	68·0514511	16·6683109	·0002159361
4632	$2^3.3.193$	21455424	99381523968	68·0587981	16·6695106	·0002158895
4633	41.113	21464689	99445904137	68·0661443	16·6707102	·0002158429
4634	2.7.331	21473956	99510312104	68·0734897	16·6719095	·0002157963
4635	$3^2.5.103$	21483225	99574747875	68·0808343	16·6731086	·0002157497
4636	$2^2.19.61$	21492496	99639211456	68·0881781	16·6743076	·0002157032
4637	.....	21501769	99703702853	68·0955211	16·6755064	·0002156567
4638	2.3.773	21511044	99768222072	68·1028634	16·6767051	·0002156102
4639	.....	21520321	99832769119	68·1102048	16·6779035	·0002155637
4640	$2^5.5.29$	21529600	99897344000	68·1175454	16·6791018	·0002155172
4641	3.7.13.17	21538881	99961946721	68·1248853	16·6802999	·0002154708
4642	2.11.211	21548164	100026577288	68·1322244	16·6814979	·0002154244
4643	.....	21557449	100091235707	68·1395627	16·6826957	·0002153780
4644	$2^2.3^2.43$	21566736	100155921984	68·1469001	16·6838933	·0002153316
4645	5.929	21576025	100220636125	68·1542368	16·6850907	·0002152853
4646	2.23.101	21585316	100285378136	68·1615728	16·6862880	·0002152389
4647	3.1549	21594609	100350148023	68·1689079	16·6874851	·0002151926
4648	$2^3.7.83$	21603904	100414945792	68·1762422	16·6886820	·0002151463
4649	.....	21613201	100479771449	68·1835757	16·6898788	·0002151000
4650	$2.3.5^2.31$	21622500	100544625000	68·1909085	16·6910754	·0002150538
4651	.....	21631801	100609506451	68·1982405	16·6922718	·0002150075
4652	$2^2.1163$	21641104	100674415808	68·2055716	16·6934680	·0002149613
4653	$3^2.11.47$	21650409	100739353077	68·2129020	16·6946640	·0002149151
4654	2.13.179	21659716	100804318264	68·2202316	16·6958599	·0002148689
4655	$5.7^2.19$	21669025	100869311375	68·2275604	16·6970557	·0002148228
4656	$2^4.3.97$	21678336	100934332416	68·2348885	16·6982512	·0002147766
4657	.....	21687649	100999381393	68·2422157	16·6994466	·0002147305
4658	2.17.137	21696964	101064458312	68·2495422	16·7006418	·0002146844
4659	3.1553	21706281	101129563179	68·2568678	16·7018368	·0002146383
4660	$2^2.5.233$	21715600	101194696000	68·2641927	16·7030317	·0002145923
4661	59.79	21724921	101259856781	68·2715168	16·7042264	·0002145462
4662	$2.3^2.7.37$	21734244	101325045528	68·2788401	16·7054209	·0002145002
4663	.....	21743569	101390262247	68·2861626	16·7066152	·0002144542
4664	$2^3.11.53$	21752896	101455506944	68·2934843	16·7078094	·0002144082
4665	3.5.311	21762225	101520779625	68·3008052	16·7090034	·0002143623
4666	2.2333	21771556	101586080296	68·3081954	16·7101972	·0002143163
4667	13.359	21780889	101651408963	68·3154448	16·7113910	·0002142704
4668	$2^2.3.389$	21790224	101716765632	68·3227634	16·7125845	·0002142245
4669	7.23.29	21799561	101782150309	68·3300812	16·7137778	·0002141786
4670	2.5.467	21808900	101847563000	68·3373982	16·7149710	·0002141328
4671	$3^2.173$	21818241	101913003711	68·3447145	16·7161640	·0002140869
4672	$2^6.73$	21827584	101978472448	68·3520300	16·7173568	·0002140411
4673	.....	21836929	102043969217	68·3593446	16·7185495	·0002139953
4674	2.3.19.41	21846276	102109494024	68·3666585	16·7197419	·0002139495
4675	$5^2.11.17$	21855625	102175046875	68·3739717	16·7209342	·0002139037
4676	$2^2.7.167$	21864976	102240627776	68·3812840	16·7221264	·0002138580
4677	3.1559	21874329	102306236733	68·3885956	16·7233184	·0002138123
4678	2.2339	21883684	102371873752	68·3959063	16·7245102	·0002137666
4679	.....	21893041	102437538839	68·4032163	16·7257018	·0002137209

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4680	$2^3.3^2.5.13$	21902400	102503232000	68·4105256	16·7268932	·0002136752
4681	31.151	21911761	102568953241	68·4178339	16·7280845	·0002136296
4682	2.2341	21921124	102634702568	68·4251416	16·7292757	·0002135839
4683	3.7.223	21930489	102700479987	68·4324485	16·7304667	·0002135383
4684	$2^2.1171$	21939856	102766285504	68·4397545	16·7316575	·0002134927
4685	5.937	21949225	102832119125	68·4470599	16·7328481	·0002134472
4686	2.3.11.71	21958596	102897980856	68·4543644	16·7340386	·0002134016
4687	43.109	21967969	102963870703	68·4616681	16·7352289	·0002133561
4688	$2^4.293$	21977344	103029788672	68·4689711	16·7364190	·0002133106
4689	$3^2.521$	21986721	103095734769	68·4762733	16·7376089	·0002132651
4690	2.5.7.67	21996100	103161709000	68·4835747	16·7387987	·0002132196
4691	.....	22005481	103227711371	68·4908753	16·7399882	·0002131742
4692	$2^2.3.17.23$	22014864	103293741888	68·4981752	16·7411776	·0002131287
4693	13.19^2	22024249	103359800557	68·5054742	16·7423669	·0002130833
4694	2.2347	22033636	103425887384	68·5127725	16·7435559	·0002130379
4695	3.5.313	22043025	103492002375	68·5200700	16·7447448	·0002129925
4696	$2^3.587$	22052416	103558145536	68·5273668	16·7459336	·0002129472
4697	7.11.61	22061809	103624316873	68·5346627	16·7471222	·0002129019
4698	$2.3^4.29$	22071204	103690516392	68·5419579	16·7483106	·0002128565
4699	37.127	22080601	103756744099	68·5492523	16·7494988	·0002128112
4700	$2^2.5^2.47$	22090000	103823000000	68·5565459	16·7506869	·0002127660
4701	3.1567	22099401	103889284101	68·5638388	16·7518748	·0002127207
4702	2.2351	22108804	103955596408	68·5711309	16·7530626	·0002126755
4703	.....	22118209	104021936927	68·5784222	16·7542501	·0002126302
4704	$2^5.3.7^2$	22127616	104088305664	68·5857127	16·7554375	·0002125850
4705	5.941	22137025	104154702625	68·5930025	16·7566248	·0002125399
4706	2.13.181	22146436	104221127816	68·6002915	16·7578118	·0002124947
4707	$3^2.523$	22155849	104287581243	68·6075798	16·7589987	·0002124495
4708	$2^2.11.107$	22165264	104354062912	68·6148672	16·7601854	·0002124044
4709	17.277	22174681	104420572829	68·6221538	16·7613720	·0002123593
4710	2.3.5.157	22184100	104487111000	68·6294397	16·7625584	·0002123142
4711	7.673	22193521	104553677431	68·6367248	16·7637446	·0002122692
4712	$2^3.19.31$	22202944	104620272128	68·6440092	16·7649306	·0002122241
4713	3.1571	22212369	104686895097	68·6512927	16·7661165	·0002121791
4714	2.2357	22221796	104753546344	68·6585755	16·7673023	·0002121341
4715	5.23.41	22231225	104820225875	68·6658576	16·7684878	·0002120891
4716	$2^2.3^2.131$	22240656	104886933696	68·6731388	16·7696732	·0002120441
4717	53.89	22250089	104953669813	68·6804193	16·7708584	·0002119992
4718	2.7.337	22259524	105020434232	68·6876990	16·7720435	·0002119542
4719	$3.11^2.13$	22268961	105087226959	68·6949780	16·7732284	·0002119093
4720	$2^4.5.59$	22278400	105154048000	68·7022561	16·7744131	·0002118644
4721	.....	22287841	105220897361	68·7095335	16·7755976	·0002118195
4722	2.3.787	22297284	105287775048	68·7168102	16·7767820	·0002117747
4723	.....	22306729	105354681067	68·7240860	16·7779662	·0002117298
4724	$2^2.1181$	22316176	105421615424	68·7313611	16·7791502	·0002116850
4725	$3^3.5^2.7$	22325625	105488578125	68·7386354	16·7803341	·0002116402
4726	2.17.139	22335076	105555569176	68·7459090	16·7815178	·0002115954
4727	29.163	22344529	105622588583	68·7531818	16·7827013	·0002115507
4728	$2^3.3.197$	22353984	105689636352	68·7604538	16·7838847	·0002115059
4729	.....	22363441	105756712489	68·7677250	16·7850679	·0002114612
4730	2.5.11.43	22372900	105823817000	68·7749955	16·7862509	·0002114165
4731	3.19.83	22382361	105890949891	68·7822652	16·7874338	·0002113718
4732	$2^2.7.13^2$	22391824	105958111168	68·7895341	16·7886165	·0002113271
4733	.....	22401289	106025300837	68·7968023	16·7897991	·0002112825
4734	$2.3^2.263$	22410756	106092518904	68·8040696	16·7909815	·0002112379
4735	5.947	22420225	106159765375	68·8113363	16·7921637	·0002111932
4736	$2^7.37$	22429696	106227040256	68·8186022	16·7933458	·0002111486
4737	3.1579	22439169	106294343553	68·8258673	16·7945277	·0002111041
4738	2.23.103	22448644	106361675272	68·8331316	16·7957094	·0002110595
4739	7.677	22458121	106429035419	68·8403951	16·7968909	·0002110150

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4740	$2^2.3.5.79$	22467600	106496424000	68·8476579	16·7980723	·0002109705
4741	11.431	22477081	106563841021	68·8549200	16·7992536	·0002109260
4742	2.2371	22486564	106631286488	68·8621812	16·8004346	·0002108815
4743	$3^3.17.31$	22496049	106698760407	68·8694417	16·8016155	·0002108370
4744	$2^3.593$	22505536	106766262784	68·8767014	16·8027962	·0002107926
4745	5.13.73	22515025	106833793625	68·8839604	16·8039768	·0002107482
4746	2.3.7.113	22524516	106901352936	68·8912185	16·8051572	·0002107038
4747	47.101	22534009	106968940723	68·8984760	16·8063374	·0002106594
4748	$2^2.1187$	22543504	107036556992	68·9057326	16·8075174	·0002106150
4749	3.1583	22553001	107104201749	68·9129886	16·8086973	·0002105706
4750	$2.5^3.19$	22562500	107171875000	68·9202437	16·8098770	·0002105263
4751	.....	22572001	107239576751	68·9274981	16·8110566	·0002104820
4752	$2^4.3^3.11$	22581504	107307307008	68·9347518	16·8122360	·0002104377
4753	$7^2.97$	22591009	107375065777	68·9420046	16·8134152	·0002103934
4754	2.2377	22600516	107442853064	68·9492567	16·8145943	·0002103492
4755	3.5.317	22610025	107510668875	68·9565080	16·8157731	·0002103049
4756	$2^2.29.41$	22619536	107578513216	68·9637586	16·8169519	·0002102607
4757	67.71	22629049	107646386093	68·9710084	16·8181304	·0002102165
4758	2.3.13.61	22638564	107714287512	68·9782575	16·8193088	·0002101723
4759	.....	22648081	107782217479	68·9855057	16·8204870	·0002101282
4760	$2^3.5.7.17$	22657600	107850176000	68·9927532	16·8216651	·0002100840
4761	$3^2.23^2$	22667121	107918163081	69·0000000	16·8228430	·0002100399
4762	2.2381	22676644	107986178728	69·0072460	16·8240208	·0002099958
4763	11.433	22686169	108054222947	69·0144912	16·8251984	·0002099517
4764	$2^2.3.397$	22695696	108122295744	69·0217357	16·8263758	·0002099076
4765	5.953	22705225	108190397125	69·0289794	16·8275530	·0002098636
4766	2.2383	22714756	108258527096	69·0362224	16·8287301	·0002098196
4767	3.7.227	22724289	108326685663	69·0434645	16·8299070	·0002097755
4768	$2^5.149$	22733824	108394872832	69·0507060	16·8310838	·0002097315
4769	19.251	22743361	108463088609	69·0579466	16·8322604	·0002096876
4770	$2.3^2.5.53$	22752900	108531333000	69·0651866	16·8334368	·0002096436
4771	13.367	22762441	108599606011	69·0724258	16·8346131	·0002095997
4772	$2^2.1193$	22771984	108667907648	69·0796642	16·8357892	·0002095557
4773	3.37.43	22781529	108736237917	69·0869018	16·8369651	·0002095118
4774	2.7.11.31	22791076	108804596824	69·0941387	16·8381409	·0002094680
4775	$5^2.191$	22800625	108872984385	69·1013748	16·8393165	·0002094241
4776	$2^3.3.199$	22810176	108941400576	69·1086102	16·8404919	·0002093802
4777	17 281	22819729	109009845433	69·1158448	16·8416672	·0002093364
4778	2.2389	22829284	109078318952	69·1230786	16·8428423	·0002092926
4779	$3^4.59$	22838841	109146821139	69·1303117	16·8440173	·0002092488
4780	$2^2.5.239$	22848400	109215352000	69·1375440	16·8451921	·0002092050
4781	7.683	22857961	109283911541	69·1447756	16·8463667	·0002091613
4782	2.3.797	22867524	109352499768	69·1520064	16·8475412	·0002091175
4783	.....	22877089	109421116687	69·1592365	16·8487155	·0002090738
4784	$2^4.13.23$	22886656	109489762304	69·1664658	16·8498896	·0002090301
4785	3.5.11.29	22896225	109558436625	69·1736943	16·8510635	·0002089864
4786	2.2393	22905796	109627139656	69·1809222	16·8522373	·0002089427
4787	.....	22915369	109695871403	69·1881492	16·8534109	·0002088991
4788	$2^2.3^2.7.19$	22924944	109764631872	69·1953756	16·8545844	·0002088555
4789	.....	22934521	109833421069	69·2026011	16·8557577	·0002088119
4790	2.5.479	22944100	109902239000	69·2098259	16·8569308	·0002087683
4791	3.1597	22953681	109971085671	69·2170499	16·8581038	·0002087247
4792	$2^3.599$	22963264	110039961088	69·2242732	16·8592766	·0002086811
4793	.....	22972849	110108865257	69·2314957	16·8604493	·0002086376
4794	2.3.17.47	22982436	110177798184	69·2387175	16·8616218	·0002085941
4795	5.7.137	22992025	110246759875	69·2459385	16·8627941	·0002085506
4796	$2^2.11.109$	23001616	110315750336	69·2531588	16·8639662	·0002085071
4797	$3^2.13.41$	23011209	110384769573	69·2603783	16·8651383	·0002084636
4798	2.2399	23020804	110453817592	69·2675970	16·8663101	·0002084202
4799	.....	23030401	110522894399	69·2748150	16·8674818	·0002083767

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4800	$2^6.3.5^2$	23040000	110592000000	69·2820323	16·8686533	·0002083333
4801	.....	23049601	110661134401	69·2892488	16·8698247	·0002082899
4802	2.7^4	23059204	110730297608	69·2964645	16·8709958	·0002082466
4803	3.1601	23068809	110799489627	69·3036795	16·8721669	·0002082032
4804	$2^2.1201$	23078416	110868710464	69·3108938	16·8733377	·0002081599
4805	5.31^2	23088025	110937960125	69·3181073	16·8745084	·0002081165
4806	$2.3^2.89$	23097636	111007238616	69·3253200	16·8756790	·0002080732
4807	11.19.23	23107249	111076545943	69·3325320	16·8768493	·0002080300
4808	$2^3.601$	23116864	111145882112	69·3397433	16·8780196	·0002079867
4809	3.7.229	23126481	111215247129	69·3469538	16·5791896	·0002079434
4810	2.5.13.37	23136100	111284641000	69·3541635	16·8803595	·0002079002
4811	17.283	23145721	111354063731	69·3613725	16·8815292	·0002078570
4812	$2^2.3.401$	23155344	111423515328	69·3685808	16·8826988	·0002078138
4813	.....	23164969	111492995797	69·3757883	16·8838682	·0002077706
4814	2.29.83	23174596	111562505144	69·3829950	16·8850374	·0002077275
4815	$3^2.5.107$	23184225	111632043375	69·3902010	16·8862065	·0002046843
4816	$2^4.7.43$	23193856	111701610496	69·3974063	16·8873754	·0002076412
4817	.....	23203489	111771206513	69·4046108	16·8885442	·0002075981
4818	2.3.11.73	23213124	111840831432	69·4118146	16·8897128	·0002075550
4819	61.79	23222761	111910485259	69·4190176	16·8908812	·0002075119
4820	$2^2.5.241$	23232400	111980168000	69·4262198	16·8920495	·0002074689
4821	3.1607	23242041	112049879661	69·4334213	16·8932176	·0002074258
4822	2.2411	23251684	112119620248	69·4406221	16·8943856	·0002073828
4823	7.13.53	23261329	112189389767	69·4478221	16·8955534	·0002073398
4824	$2^3.3^2.67$	23270976	112259188224	69·4550214	16·8967210	·0002072968
4825	$5^2.193$	23280625	112329015625	69·4622200	16·8978885	·0002072539
4826	2.19.127	23290276	112398871976	69·4694178	16·8990558	·0002072109
4827	3.1609	23299929	112468757283	69·4766148	16·9002229	·0002071680
4828	$2^2.17.71$	23309584	112538671552	69·4838111	16·9013899	·0002071251
4829	11.439	23319241	112608614789	69·4910067	16·9025567	·0002070822
4830	2.3.5.7.23	23328900	112678587000	69·4982015	16·9037234	·0002070393
4831	.....	23338561	112748588191	69·5053955	16·9048899	·0002069965
4832	$2^5.151$	23348224	112818618368	69·5125888	16·9060562	·0002069536
4833	$3^3.179$	23357889	112888677537	69·5197814	16·9072224	·0002069108
4834	2.2417	23367556	112958765704	69·5269732	16·9083883	·0002068680
4835	5.967	23377225	113028882875	69·5341642	16·9095542	·0002068252
4836	$2^2.3.13.31$	23386896	113099029056	69·5413546	16·9107199	·0002067825
4837	7.691	23396569	113169204253	69·5485442	16·9118855	·0002067397
4838	2.41.59	23406244	113239408472	69·5557330	16·9130508	·0002066970
4839	3.1613	23415921	113309641719	69·5629211	16·9142160	·0002066543
4840	$2^3.5.11^2$	23425600	113379904000	69·5701085	16·9153811	·0002066116
4841	47.103	23435281	113450195321	69·5772951	16·9165460	·0002065689
4842	$2.3^2.269$	23444964	113520515688	69·5844810	16·9177107	·0002065262
4843	29.167	23454649	113590865107	69·5916662	16·9188753	·0002064836
4844	$2^2.7.173$	23464336	113661243584	69·5988506	16·9200397	·0002064410
4845	3.5.17.19	23474025	113731651125	69·6060342	16·9212040	·0002063983
4846	2.2423	23483716	113802087736	69·6132171	16·9223681	·0002063558
4847	37.131	23493409	113872553423	69·6203993	16·9235320	·0002063132
4848	$2^4.3.101$	23503104	113943048192	69·6275807	16·9246958	·0002062706
4849	13.373	23512801	114013572049	69·6347614	16·9258594	·0002062281
4850	$2.5^2.97$	23522500	114084125000	69·6419414	16·9270228	·0002061856
4851	$3^2.7^2.11$	23532201	114154707051	69·6491206	16·9281861	·0002061431
4852	$2^2.1213$	23541904	114225318208	69·6562991	16·9293492	·0002061006
4853	23.211	23551609	114295958477	69·6634768	16·9305121	·0002060581
4854	2.3.809	23561316	114366627864	69·6706538	16·9316749	·0002060157
4855	5.971	23571025	114437326375	69·6778301	16·9328375	·0009059732
4856	$2^3.607$	23580736	114508054016	69·6850056	16·9340000	·0002059308
4857	3.1619	23590449	114578810793	69·6921804	16·9351624	·0002058884
4858	2.7.347	23600164	114649596712	69·6993544	16·9363245	·0002058460
4859	43.113	23609881	114720411779	69·7065277	16·9374866	·0002058037

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4860	$2^2.3^5.5$	23619600	114791256000	69·7137003	16·9386484	·0002057613
4861	.....	23629321	114862129381	69·7208721	16·9398101	·0002057190
4862	2.11.13.17	23639044	114933031928	69·7280432	16·9409717	·0002056767
4863	3.1621	23648769	115003963647	69·7352135	16·9421330	·0002056344
4864	$2^6.19$	23658496	115074924544	69·7423831	16·9432948	·0002055921
4865	5.7.139	23668225	115145914625	69·7495520	16·9444553	·0002055498
4866	2.3.811	23677956	115216933896	69·7567201	16·9456162	·0002055076
4867	31.157	23687689	115287982363	69·7638875	16·9467770	·0002054654
4868	$2^2.1217$	23697424	115359060032	69·7710542	16·9479376	·0002054232
4869	$3^2.541$	23707161	115430166909	69·7782201	16·9490980	·0002053810
4870	2.5.487	23716900	115501303000	69·7853853	16·9502583	·0002053388
4871	.....	23726641	115572468311	69·7925498	16·9514184	·0002052967
4872	$2^3.3.7.29$	23736384	115643662848	69·7997135	16·9525784	·0002052545
4873	11.443	23746129	115714886617	69·8068765	16·9537381	·0002052124
4874	2.2437	23755876	115786139624	69·8140387	16·9548978	·0002051703
4875	$3.5^3.13$	23765625	115857421875	69·8212003	16·9560572	·0002051282
4876	$2^2.23.53$	23775376	115928733376	69·8283610	16·9572165	·0002050861
4877	.....	23785129	116000074133	69·8355211	16·9583757	·0002050441
4878	$2.3^2.271$	23794884	116071444152	69·8426804	16·9595346	·0002050021
4879	7.17.41	23804641	116142843439	69·8498389	16·9606935	·0002049600
4880	$2^4.5.61$	23814400	116214272000	69·8569968	16·9618521	·0002049180
4881	3.1627	23824161	116285729841	69·8641539	16·9630106	·0002048761
4882	2.2441	23833924	116357216968	69·8713103	16·9641690	·0002048341
4883	19.257	23843689	116428733387	69·8784659	16·9653272	·0002047921
4884	$2^2.3.11.37$	23853456	116500279104	69·8856208	16·9664853	·0002047502
4885	5.977	23863225	116571854125	69·8927750	16·9676432	·0002047083
4886	2.7.349	23872996	116643458456	69·8999285	16·9688009	·0002046664
4887	$3^3.181$	23882769	116715092103	69·9070812	16·9699585	·0002046245
4888	$2^3.13.47$	23892544	116786755072	69·9142332	16·9711159	·0002045827
4889	.....	23902321	116858447369	69·9213844	16·9722731	·0002045408
4890	2.3.5.163	23912100	116930169000	69·9285349	16·9734302	·0002044990
4891	67.73	23921881	117001919971	69·9356847	16·9745872	·0002044572
4892	$2^2.1223$	23931664	117073700288	69·9428338	16·9757440	·0002044154
4893	3.7.233	23941449	117145509957	69·9499821	16·9769006	·0002043736
4894	2.2447	23951236	117217348984	69·9571397	16·9780570	·0002043318
4895	5.11.89	23961025	117289217375	69·9642766	16·9792133	·0002042901
4896	$2^5.3^2.17$	23970816	117361115136	69·9714227	16·9803695	·0002042484
4897	59.83	23980609	117433042273	69·9785681	16·9815255	·0002042067
4898	2.31.79	23990404	117504998792	69·9857128	16·9826813	·0002041650
4899	3.23.71	24000201	117576984699	69·9928568	16·9838370	·0002041233
4900	$2^2.5^2.7^2$	24010000	117649000000	70·0000000	16·9849925	·0002040816
4901	$13^2.29$	24019801	117721044701	70·0071425	16·9861479	·0002040400
4902	2.3.19.43	24029604	117793118808	70·0142843	16·9873031	·0002039984
4903	.....	24039409	117865222327	70·0214253	16·9884581	·0002039568
4904	$2^3.613$	24049216	117937355264	70·0285656	16·9896130	·0002039152
4905	$3^2.5.109$	24059025	118009517625	70·0357052	16·9907678	·0002038736
4906	2.11.223	24068836	118081709416	70·0428440	16·9919223	·0002038320
4907	7.701	24078649	118153930643	70·0499822	16·9930768	·0002037905
4908	$2^2.3.409$	24088464	118226181312	70·0571196	16·9942310	·0002037490
4909	.....	24098281	118298461429	70·0642563	16·9953851	·0002037075
4910	2.5.491	24108100	118370771000	70·0713922	16·9965391	·0002036660
4911	3.1637	24117921	118443110031	70·0785274	16·9976929	·0002036245
4912	$2^4.307$	24127744	118515478528	70·0856619	16·9988465	·0002035831
4913	$17^3.$	24137569	118587876497	70·0927957	17·0000000	·0002035418
4914	$2.3^3.7.13$	24147396	118660303944	70·0999287	17·0011533	·0002035002
4915	5.983	24157225	118732760875	70·1070610	17·0023065	·0002034588
4916	$2^2.1229$	24167056	118805247296	70·1141925	17·0034595	·0002034174
4917	3.11.149	24176889	118877763213	70·1213234	17·0046124	·0002033760
4918	2.2459	24186724	118950308632	70·1284535	17·0057651	·0002033347
4919	.....	24196561	119022883559	70·1355829	17·0069176	·0002032934

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4920	$2^3.3.5.41$	24206400	119095488000	70·1427116	17·0080700	·0002032520
4921	7.19.37	24216241	119168121961	70·1498396	17·0092222	·0002032107
4922	2.23.107	24226084	119240785448	70·1569668	17·0103743	·0002031694
4923	$3^2.547$	24235929	119313478467	70·1640934	17·0115262	·0002031282
4924	$2^2.1231$	24245776	119386201024	70·1712191	17·0126779	·0002030869
4925	$5^2.197$	24255625	119458953125	70·1783442	17·0138295	·0002030457
4926	2.3.821	24265476	119531734776	70·1854685	17·0149810	·0002030045
4927	13.379	24275329	119604545983	70·1925922	17·0161323	·0002029633
4928	$2^6.7.11$	24285184	119677386752	70·1997151	17·0172834	·0002029221
4929	3.31.53	24295041	119750257089	70·2068372	17·0184344	·0002028810
4930	2.5.17.29	24304900	119823157000	70·2139587	17·0195853	·0002028398
4931	.....	24314761	119896086491	70·2210794	17·0207359	·0002027986
4932	$2^2.3^2.137$	24324624	119969045568	70·2281995	17·0218865	·0002027575
4933	.....	24334489	120042034237	70·2353187	17·0230368	·0002027164
4934	2.2467	24344356	120115052504	70·2424373	17·0241870	·0002026753
4935	3.5.7.47	24354225	120188100375	70·2495551	17·0253371	·0002026342
4936	$2^3.617$	24364096	120261177856	70·2566723	17·0264870	·0002025932
4937	.....	24373969	120334284953	70·2637887	17·0276367	·0002025522
4938	2.3.823	24383844	120407421672	70·2709043	17·0287863	·0002025111
4939	11.449	24393721	120480588019	70·2780193	17·0299357	·0002024701
4940	$2^2.5.13.19$	24403600	120553784000	70·2851335	17·0310850	·0002024291
4941	$3^4.61$	24413481	120627009621	70·2922471	17·0322341	·0002023882
4942	2.7.353	24423364	120700264888	70·2993599	17·0333830	·0002023472
4943	.....	24433249	120773549807	70·3064720	17·0345318	·0002023063
4944	$2^4.3.103$	24443136	120846864384	70·3135833	17·0356805	·0002022654
4945	5.23.43	24453025	120920208625	70·3206940	17·0368290	·0002022245
4946	2.2473	24462916	120993582536	70·3278039	17·0379774	·0002021836
4947	3.17.97	24472809	121066986123	70·3349131	17·0391256	·0002021427
4948	$2^2.1237$	24482704	121140419392	70·3420216	17·0402736	·0002021019
4949	$7^2.101$	24492601	121213883349	70·3491293	17·0414215	·0002020610
4950	$2.3^2.5^2.11$	24502500	121287375000	70·3562364	17·0425692	·0002020202
4951	.....	24512401	121360897351	70·3633427	17·0437168	·0002019794
4952	$2^3.619$	24522304	121434449408	70·3704483	17·0448642	·0002019386
4953	3.13.127	24532209	121508031177	70·3775532	17·0460115	·0002018978
4954	2.2477	24542116	121581642664	70·3846573	17·0471585	·0002018571
4955	5.991	24552025	121655283875	70·3917608	17·0483055	·0002018163
4956	$2^2.3.7.59$	24561936	121728954816	70·3988635	17·0494523	·0002017756
4957	.....	24571849	121802655493	70·4059656	17·0505989	·0002017349
4958	2.37.67	24581764	121876385912	70·4130669	17·0517454	·0002016942
4959	$3^2.19.29$	24591681	121950146079	70·4201676	17·0528917	·0002016535
4960	$2^5.5.31$	24601600	122023936000	70·4272674	17·0540379	·0002016129
4961	$11^2.41$	24611521	122097755681	70·4343666	17·0551839	·0002015723
4962	2.3.827	24621444	122171605128	70·4414650	17·0562298	·0002015316
4963	7.709	24631369	122245484347	70·4485627	17·0574755	·0002014910
4964	$2^2.17.73$	24641296	122319393344	70·4556598	17·0586211	·0002014504
4965	3.5.331	24651225	122393332125	70·4627561	17·0597665	·0002014099
4966	2.13.191	24661156	122467300696	70·4698517	17·0609118	·0002013693
4967	.....	24671089	122541299063	70·4769466	17·0620569	·0002013288
4968	$2^3.3^2.23$	24681024	122615327232	70·4840407	17·0632019	·0002012882
4969	.....	24690961	122689385209	70·4911342	17·0643467	·0002012477
4970	2.5.7.71	24700900	122763473000	70·4982269	17·0654913	·0002012072
4971	3.1657	24710841	122837590611	70·5053189	17·0666358	·0002011668
4972	$2^2.11.113$	24720784	122911738048	70·5124102	17·0677802	·0002011263
4973	.....	24730729	122985915317	70·5195008	17·0689244	·0002010859
4974	2.3.829	24740676	123060122424	70·5265907	17·0700684	·0002010454
4975	$5^2.199$	24750625	123134359375	70·5336798	17·0712123	·0002010050
4976	$2^4.311$	24760576	123208626176	70·5407683	17·0723560	·0002009646
4977	$3^2.7.79$	24770529	123282922833	70·5478561	17·0734995	·0002009243
4978	$2.19.131$	24780484	123357249352	70·5549431	17·0746430	·0002008839
4979	13.383	24790441	123431605739	70·5620294	17·0757862	·0002008435

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
4980	$2^2.3\ 5.83$	24800400	123505992000	70·5691151	17·0769293	·0002008032
4981	17.293	24810361	123580408141	70·5761999	17·0780723	·0002007629
4982	2.47.53	24820324	123654854168	70·5832841	17·0792151	·0002007226
4983	3.11.151	24830289	123729330087	70·5903676	17·0803578	·0002006823
4984	$2^3.7.89$	24840256	123803835904	70·5974504	17·0815002	·0002006421
4985	5.997	24850225	123878371625	70·6045324	17·0826426	·0002006018
4986	$2.3^2.277$	24860196	123952937256	70·6116138	17·0837847	·0002005616
4987	.....	24870169	124027532803	70·6186944	17·0849268	·0002005214
4988	$2^2.29.43$	24880144	124102158272	70·6257743	17·0860686	·0002004812
4989	3.1663	24890121	124176813669	70·6328535	17·0872103	·0002004410
4990	2.5.499	24900100	124251499000	70·6399320	17·0883519	·0002004008
4991	7.23.31	24910081	124326214271	70·6470098	17·0894933	·0002003606
4992	$2^7.3.13$	24920064	124400959488	70·6540869	17·0906346	·0002003205
4993	.....	24930049	124475734657	70·6611633	17·0917757	·0002002804
4994	2.11.227	24940036	124550539784	70·6682389	17·0929167	·0002002403
4995	$3^3.5.37$	24950025	124625374875	70·6753139	17·0940575	·0002002002
4996	$2^2.1249$	24960016	124700239936	70·6823882	17·0951982	·0002001601
4997	19.263	24970009	124775134973	70·6894617	17·0963387	·0002001201
4998	$2.3.7^2.17$	24980004	124850059992	70·6965345	17·0974791	·0002000800
4999	.....	24990001	124925014999	70·7036066	17·0986193	·0002000400
5000	$2^3.5^4$	25000000	125000000000	70·7106780	17·0997594	·0002000000
5001	3.1667	25010001	125075015001	70·7177487	17·1008993	·0001999600
5002	2.41.61	25020004	125150060008	70·7248188	17·1020390	·0001999200
5003	.....	25030009	125225135027	70·7318881	17·1031787	·0001998801
5004	$2^2.3^2.139$	25040016	125300240064	70·7389567	17·1043182	·0001998401
5005	5.7.11.13	25050025	125375375125	70·7460246	17·1054575	·0001998002
5006	2.2503	25060036	125450540216	70·7530918	17·1065966	·0001997603
5007	3.1669	25070049	125525735343	70·7601582	17·1077356	·0001997204
5008	$2^4.313$	25080064	125600960512	70·7672240	17·1088745	·0001996805
5009	.....	25090081	125676215729	70·7742891	17·1100132	·0001996406
5010	2.3.5.167	25100100	125751501000	70·7813534	17·1111517	·0001996008
5011	.....	25110121	125826816331	70·7884171	17·1122901	·0001995610
5012	$2^2.7.179$	25120144	125902161728	70·7954801	17·1134283	·0001995211
5013	$3^2.557$	25130169	125977537197	70·8025423	17·1145664	·0001994813
5014	2.23.109	25140196	126052942744	70·8096038	17·1157044	·0001994416
5015	5.17.59	25150225	126128378375	70·8166647	17·1168422	·0001994018
5016	$2^3.3.11.19$	25160256	126203844096	70·8237248	17·1179798	·0001993620
5017	29.173	25170289	126279339913	70·8307842	17·1191173	·0001993223
5018	2.13.193	25180324	126354865832	70·8378430	17·1202546	·0001992826
5019	3.7.239	25190361	126430421859	70·8449010	17·1213918	·0001992429
5020	$2^2.5.251$	25200400	126506008000	70·8519583	17·1225288	·0001992032
5021	.....	25210441	126581624261	70·8590150	17·1236657	·0001991635
5022	$2.3^4.31$	25220484	126657270648	70·8660709	17·1248024	·0001991239
5023	.....	25230529	126732947167	70·8731261	17·1259390	·0001990842
5024	$2^3.157$	25240576	126808653824	70·8801806	17·1270755	·0001990446
5025	$3.5^2.67$	25250625	126884390625	70·8872344	17·1282117	·0001990050
5026	2.7.359	25260676	126960157576	70·8942875	17·1293479	·0001989654
5027	11.457	25270729	127035954683	70·9013399	17·1304838	·0001989258
5028	$2^2.3.419$	25280784	127111781952	70·9083916	17·1316196	·0001988862
5029	47.107	25290841	127187639389	70·9154426	17·1327553	·0001988467
5030	2.5.503	25300900	127263527000	70·9224929	17·1338908	·0001988072
5031	$3^2.13.43$	25310961	127339444791	70·9295425	17·1350262	·0001987676
5032	$2^3.17.37$	25321024	127415392768	70·9365914	17·1361614	·0001987281
5033	7.719	25331089	127491370937	70·9436396	17·1372965	·0001986887
5034	2.3.839	25341156	127567379304	70·9506871	17·1384314	·0001986492
5035	5.19.53	25351225	127643417875	70·9577339	17·1395662	·0001986097
5036	$2^2.1259$	25361296	127719486656	70·9647800	17·1407008	·0001985703
5037	3.23.73	25371369	127795585653	70·9718254	17·1418353	·0001985309
5038	2.11.229	25381444	127871714872	70·9788701	17·1429696	·0001984915
5039	.....	25391521	127947874319	70·9859141	17·1441037	·0001984521

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5040	$2^4.3^2.5.7$	25401600	128024064000	70·9929574	17·1452377	·0001984127
5041	71^2	25411681	128100283921	71·0000000	17·1463716	·0001983733
5042	2.2521	25421764	128176534088	71·0070419	17·1475053	·0001983340
5043	3.41^2	25431849	128252814507	71·0140831	17·1486389	·0001982947
5044	$2^2.13.97$	25441936	128329125184	71·0211236	17·1497723	·0001982554
5045	5.1009	25452025	128405466125	71·0281634	17·1509056	·0001982161
5046	$2.3.29^2$	25462116	128481837336	71·0352026	17·1520387	·0001981768
5047	$7^2.103$	25472209	128558238823	71·0422410	17·1531717	·0001981375
5048	$2^3.631$	25482304	128634670592	71·0492787	17·1543045	·0001980983
5049	$3^3.11.17$	25492401	128711132649	71·0563157	17·1554372	·0001980590
5050	$2.5^2.101$	25502500	128787625000	71·0633520	17·1565697	·0001980198
5051	.....	25512601	128864147651	71·0703876	17·1577021	·0001979806
5052	$2^2.3.421$	25522704	128940700608	71·0774225	17·1588343	·0001979414
5053	31.163	25532809	129017283877	71·0844568	17·1599664	·0001979022
5054	$2.7.19^2$	25542916	129093897464	71·0914903	17·1610984	·0001978631
5055	3.5.337	25553025	129170541375	71·0985231	17·1622301	·0001978239
5056	$2^6.79$	25563136	129247215616	71·1055553	17·1633617	·0001977848
5057	13.389	25573249	129323920193	71·1125868	17·1644932	·0001977457
5058	$2.3^2.281$	25583364	129400655112	71·1196175	17·1656245	·0001977066
5059	.....	25593481	129477420379	71·1266476	17·1667557	·0001976675
5060	$2^2.5.11.23$	25603600	129554216000	71·1336769	17·1678867	·0001976285
5061	3.7.241	25613721	129631041981	71·1407056	17·1690176	·0001975894
5062	2.2531	25623844	129707898328	71·1477336	17·1701483	·0001975504
5063	61.83	25633969	129784785047	71·1547608	17·1712789	·0001975114
5064	$2^3.3.211$	25644096	129861702144	71·1617874	17·1724093	·0001974724
5065	5.1013	25654225	129938649625	71·1688133	17·1735396	·0001974334
5066	2.17.149	25664356	130015627496	71·1758385	17·1746698	·0001973944
5067	$3^2.563$	25674489	130092635763	71·1828631	17·1757998	·0001973554
5068	$2^2.7.181$	25684624	130169674432	71·1898869	17·1769296	·0001973165
5069	37.137	25694761	130246743509	71·1969100	17·1780593	·0001972776
5070	$2.3.5.13^2$	25704900	130323843000	71·2039325	17·1791889	·0001972387
5071	11.461	25715041	130400972911	71·2109542	17·1803183	·0001971998
5072	$2^4.317$	25725184	130478133248	71·2179753	17·1814475	·0001971609
5073	3.19.89	25735329	130555324017	71·2249956	17·1825766	·0001971220
5074	2.43.59	25745476	130632545224	71·2320153	17·1837056	·0001970832
5075	$5^2.7.29$	25755625	130709796875	71·2390343	17·1848344	·0001970443
5076	$2^2.3^3.47$	25765776	130787078976	71·2460525	17·1859630	·0001970055
5077	.....	25775929	130864391533	71·2530701	17·1870915	·0001969667
5078	2.2539	25786084	130941734552	71·2600870	17·1882199	·0001969279
5079	3.1693	25796241	131019108039	71·2671032	17·1893481	·0001968892
5080	$2^3.5.127$	25806400	131096512000	71·2741187	17·1904761	·0001968504
5081	.....	25816561	131173946441	71·2811335	17·1916040	·0001968117
5082	$2.3.7.11^2$	25826724	131251411368	71·2881477	17·1927318	·0001967729
5083	13.17.23	25836889	131328906787	71·2951611	17·1938594	·0001967342
5084	$2^2.31.41$	25847056	131406432704	71·3021738	17·1949868	·0001966955
5085	$3^2.5.113$	25857225	131483989125	71·3091859	17·1961142	·0001966568
5086	2.2543	25867396	131561576056	71·3161973	17·1972413	·0001966182
5087	.....	25877569	131639193503	71·3232080	17·1983683	·0001965795
5088	$2^3.3.53$	25887744	131716841472	71·3302180	17·1994952	·0001965409
5089	7.727	25897921	131794519969	71·3372273	17·2006219	·0001965023
5090	2.5.509	25908100	131872229000	71·3442359	17·2017485	·0001964637
5091	3.1697	25918281	131949968571	71·3512439	17·2028749	·0001964251
5092	$2^2.19.67$	25928464	132027738688	71·3582511	17·2040012	·0001963865
5093	11.463	25938649	132105539357	71·3652577	17·2051274	·0001963479
5094	$2.3^2.283$	25948836	132183370584	71·3722635	17·2062534	·0001963094
5095	5.1019	25959025	132261232375	71·3792687	17·2073792	·0001962709
5096	$2^3.7^2.13$	25969216	132339124736	71·3862732	17·2085049	·0001962323
5097	3.1699	25979409	132417047673	71·3932770	17·2096305	·0001961938
5098	2.2549	25989604	132495001192	71·4002801	17·2107558	·0001961554
5099	.....	25999801	132572985299	71·4072826	17·2118811	·0001961169

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5220	$2^2.3^2.5.29$	27248400	142236648000	72·2495673	17·3469649	·0001915709
5221	23.227	27258841	142318408861	72·2564875	17·3480726	·0001915342
5222	2.7.373	27269284	142400201048	72·2634069	17·3491801	·0001914975
5223	3.1741	27279729	142482024567	72·2703257	17·3502875	·0001914608
5224	$2^3.653$	27290176	142563879424	72·2772439	17·3513947	·0001914242
5225	$5^2.11.19$	27300625	142645765625	72·2841614	17·3525018	·0001913876
5226	2.3.13.67	27311076	142727683176	72·2910782	17·3536088	·0001913509
5227	.....	27321529	142809632083	72·2979944	17·3547156	·0001913143
5228	$2^2.1307$	27331984	142891612352	72·3049099	17·3558222	·0001912777
5229	$3^2.7.83$	27342441	142973623989	72·3118248	17·3569287	·0001912412
5230	2.5.523	27352900	143055667000	72·3187389	17·3580351	·0001912046
5231	.....	27363361	143137741391	72·3256524	17·3591414	·0001911680
5232	$2^4.3.109$	27373824	143219847168	72·3325653	17·3602475	·0001911315
5233	.....	27384289	143301984337	72·3394775	17·3613534	·0001910950
5234	2.2617	27394756	143384152904	72·3463890	17·3624592	·0001910585
5235	3.5.349	27405225	143466352875	72·3532999	17·3635649	·0001910220
5236	$2^2.7.11.17$	27415696	143548584256	72·3602101	17·3646705	·0001909855
5237	.....	27426169	143630847053	72·3671196	17·3657759	·0001909490
5238	$2.3^3.97$	27436644	143713141272	72·3740285	17·3668811	·0001909126
5239	$13^2.31$	27447121	143795466919	72·3809367	17·3679862	·0001908761
5240	$2^3.5.131$	27457600	143877824000	72·3878443	17·3690912	·0001908397
5241	3.1747	27468081	143960212521	72·3947512	17·3701960	·0001908033
5242	2.2621	27478564	144042632488	72·4016574	17·3713007	·0001907669
5243	$7^2.107$	27489049	144125083907	72·4085630	17·3724053	·0001907305
5244	$2^2.3.19.23$	27499536	144207566784	72·4154680	17·3735097	·0001906941
5245	5.1049	27510025	144290081125	72·4223722	17·3746140	·0001906578
5246	2.43.61	27520516	144372626936	72·4292758	17·3757181	·0001906214
5247	$3^2.11.53$	27531009	144455204223	72·4361788	17·3768221	·0001905851
5248	27.41	27541504	144537812992	72·4430811	17·3779260	·0001905488
5249	29.181	27552001	144620453249	72·4499828	17·3790297	·0001905125
5250	$2.3.5^3.7$	27562500	144703125000	72·4568838	17·3801333	·0001904762
5251	59.89	27573001	144785828251	72·4637841	17·3812367	·0001904399
5252	$2^2.13.101$	27583504	144868563008	72·4706838	17·3823400	·0001904037
5253	3.17.103	27594009	144951329277	72·4775828	17·3834431	·0001903674
5254	2.37.71	27604516	145034127064	72·4844811	17·3845461	·0001903312
5255	5.1051	27615025	145116956375	72·4913788	17·3856490	·0001902950
5256	$2^3.3^2.73$	27625536	145199817216	72·4982758	17·3867517	·0001902588
5257	7.751	27636049	145282709593	72·5051723	17·3878543	·0001902226
5258	2.11.239	27646564	145365633512	72·5120680	17·3889568	·0001901864
5259	3.1753	27657081	145448588979	72·5189631	17·3900591	·0001901502
5260	$2^2.5.263$	27667600	145531576000	72·5258575	17·3911612	·0001901141
5261	.....	27678121	145614594581	72·5327513	17·3922633	·0001900779
5262	2.3.877	27688644	145697644728	72·5396444	17·3933652	·0001900418
5263	19.277	27699169	145780726447	72·5465368	17·3944669	·0001900057
5264	$2^4.7.47$	27709696	145863839744	72·5534286	17·3955685	·0001899696
5265	$3^4.5.13$	27720225	145946984625	72·5603197	17.3966700	·0001899335
5266	2.2633	27730756	146030161096	72·5672102	17.3977713	·0001898975
5267	23.229	27741289	146113369163	72·5741001	17.3988725	·0001898614
5268	$2^2.3.439$	27751824	146196608832	72·5809892	17.3999736	·0001898254
5269	11.479	27762361	146279880109	72·5878778	17.4010745	·0001897893
5270	2.5.17.31	27772900	146363183000	72·5947656	17·4021753	·0001897533
5271	3.7.251	27783441	146446517511	72·6016529	17·4032759	·0001897173
5272	$2^3.659$	27793984	146529883648	72·6085394	17·4043764	·0001896813
5273	.....	27804529	146613281417	72·6154254	17·4054768	·0001896454
5274	$2.3^2.293$	27815076	146696710824	72·6223106	17·4065770	·0001896094
5275	$5^2.211$	27825625	146780171875	72·6291952	17·4076771	·0001895735
5276	$2^2.1319$	27836176	146863664576	72·6360792	17·4087770	·0001895375
5277	3.1759	27846729	146947188933	72·6429625	17·4098768	·0001895016
5278	2.7.13.29	27857284	147030744952	72·6498451	17·4109765	·0001894657
5279	.....	27867841	147114332639	72·6567271	17·4120760	·0001894298

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5280	$2^5.3.5.11$	27878400	147197952000	72·6636085	17·4131754	·0001893939
5281	.....	27888961	147281603041	72·6704892	17·4142747	·0001893581
5282	2 19.139	27899524	147365285768	72·6773692	17·4153738	·0001893222
5283	$3^2.587$	27910089	147449000187	72·6842486	17·4164727	·0001892864
5284	$2^2.1321$	27920656	147532746304	72·6911274	17·4175716	·0001892506
5285	5.7.151	27931225	147616524125	72·6980055	17·4186703	·0001892148
5286	2 3.881	27941796	147700333656	72·7048829	17·4197688	·0001891790
5287	17 311	27952369	147784174903	72·7117597	17·4208672	·0001891432
5288	$2^3.661$	27962944	147868047872	72·7186358	17·4219655	·0001891074
5289	3.41.43	27973521	147951952569	72·7255113	17·4230636	·0001890717
5290	$2.5.23^2$	27984100	148035889000	72·7323862	17·4241616	·0001890359
5291	11.13.37	27994681	148119857171	72·7392604	17·4252595	·0001890001
5292	$2^2.3^3.7^2$	28005264	148203857088	72·7461339	17·4263572	·0001889645
5293	67.79	28015849	148287888757	72·7530068	17·4274548	·0001889288
5294	2.2647	28026436	148371952184	72·7598791	17·4285523	·0001888931
5295	3.5.353	28037025	148456047375	72·7667507	17·4296496	·0001888574
5296	$2^4.331$	28047616	148540174336	72·7736216	17·4307467	·0001888218
5297	.....	28058209	148624333073	72·7804919	17·4318437	·0001887861
5298	2.3.883	28068804	148708523592	72·7873616	17·4329406	·0001887505
5299	7.757	28079401	148792745899	72·7942306	17·4340374	·0001887149
5300	$2^2.5^2.53$	28090000	148877000000	72·8010989	17·4351340	·0001886792
5301	$3^2.19.31$	28100601	148961285901	72·8079666	17·4362305	·0001886437
5302	2.11.241	28111204	149045603608	72·8148337	17·4373269	·0001886081
5303	.....	28121809	149129953127	72·8217001	17·4384231	·0001885725
5304	$2^3.3.13.17$	28132416	149214334464	72·8285659	17·4395191	·0001885370
5305	5.1061	28143025	149298747625	72·8354310	17·4406150	·0001885014
5306	2.7.379	28153636	149383192616	72·8422954	17·4417108	·0001884659
5307	3.29.61	28164249	149467669443	72·8491593	17·4428065	·0001884304
5308	$2^2.1327$	28174864	149552178112	72·8560224	17·4439020	·0001883949
5309	.....	28185481	149636718629	72·8628849	17·4449974	·0001883594
5310	$2.3^2.5.59$	28196100	149721291000	72·8697468	17·4460926	·0001883239
5311	47.113	28206721	149805895231	72·8766081	17·4471877	·0001882885
5312	$2^6.83$	28217344	149890531328	72·8834687	17·4482827	·0001882530
5313	3.7.11.23	28227969	149975199297	72·8903286	17·4493775	·0001882176
5314	2.2657	28238596	150059899144	72·8971879	17·4504722	·0001881822
5315	5.1063	28249225	150144630875	72·9040466	17·4515668	·0001881468
5316	$2^2.3.443$	28259856	150229394496	72·9109046	17·4526612	·0001881114
5317	13.409	28270489	150314190013	72·9177619	17·4537554	·0001880760
5318	2.2659	28281124	150399017432	72·9246186	17·4548496	·0001880406
5319	$3^3.197$	28291761	150483876759	72·9314747	17·4559436	·0001880053
5320	$2^3.5.7.19$	28302400	150568768000	72·9383301	17·4570375	·0001879699
5321	17.313	28313041	150653691161	72·9451849	17·4581312	·0001879346
5322	2.3.887	28323684	150738646248	72·9520390	17·4592248	·0001878993
5323	.....	28334329	150823633267	72·9588925	17·4603183	·0001878640
5324	$2^2.11^3$	28344976	150908652224	72·9657453	17·4614116	·0001878287
5325	$3.5^2.71$	28355625	150993703125	72·9725975	17·4625048	·0001877934
5326	2.2663	28366276	151078785976	72·9794491	17·4635978	·0001877582
5327	7.761	28376929	151163900783	72·9863000	17·4646908	·0001877229
5328	$2^4.3^2.37$	28387584	151249047552	72·9931504	17·4657835	·0001876877
5329	73^2	28398241	151334226289	73·0000000	17·4668762	·0001876525
5330	2.5.13.41	28408900	151419437000	73·0068490	17·4679686	·0001876173
5331	3.1777	28419561	151504679691	73·0136973	17·4690610	·0001875821
5332	$2^2.31.43$	28430224	151589954368	73·0205450	17·4701532	·0001875469
5333	.....	28440889	151675261037	73·0273921	17·4712453	·0001875117
5334	2.3.7.127	28451556	151760599704	73·0342385	17·4723372	·0001874766
5335	5.11.97	28462225	151845970375	73·0410843	17·4734290	·0001874414
5336	$2^3.23.29$	28472896	151931373056	73·0479295	17·4745207	·0001874063
5337	$3^2.593$	28483569	152016807753	73·0547740	17·4756123	·0001873712
5338	2 17.157	28494244	152102274472	73·0616178	17·4767037	·0001873361
5339	19.281	28504921	152187773219	73·0684610	17·4777950	·0001873010

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5340	$2^2.3.5.89$	28515600	152273304000	73·0753036	17·4788861	·0001872659
5341	$7^2.109$	28526281	152358866821	73·0821456	17·4799771	·0001872309
5342	2.2671	28536964	152444461688	73·0889869	17·4810679	·0001871958
5343	3.13.137	28547649	152530088607	73·0958275	17·4821587	·0001871608
5344	$2^3.167$	28558336	152615747584	73·1026675	17·4832492	·0001871257
5345	5.1069	28569025	152701438625	73·1095069	17·4843397	·0001870907
5346	$2.3^5.11$	28579716	152787161736	73·1163456	17·4854300	·0001870557
5347	.....	28590409	152872916923	73·1231837	17·4865202	·0001870208
5348	$2^2.7.191$	28601104	152958704192	73·1300212	17·4876103	·0001869858
5349	3.1783	28611801	153044523549	73·1368580	17·4887002	·0001869508
5350	$2.5^2.107$	28622500	153130375000	73·1436942	17·4897899	·0001869159
5351	.....	28633201	153216258551	73·1505297	17·4908796	·0001868810
5352	$2^3.3.223$	28643904	153302174208	73·1573646	17·4919691	·0001868460
5353	53.101	28654609	153388121977	73·1641989	17·4930585	·0001868111
5354	2.2677	28665316	153474101864	73·1710325	17·4941477	·0001867762
5355	$3^2.5.7.17$	28676025	153560113875	73·1778655	17·4952368	·0001867414
5356	$2^2.13.103$	28686736	153646158016	73·1846979	17·4963258	·0001867065
5357	11.487	28697449	153732234293	73·1915296	17·4974146	·0001866716
5358	2.3.19.47	28708164	153818342712	73·1983607	17·4985033	·0001866368
5359	23.233	28718881	153904483279	73·2051911	17·4995918	·0001866020
5360	$2^4.5.67$	28729600	153990656000	73·2120209	17·5006803	·0001865672
5361	3.1787	28740321	154076860881	73·2188501	17·5017685	·0001865324
5362	2.7.383	28751044	154163097928	73·2256786	17·5028567	·0001864976
5363	31.173	28761769	154249367147	73·2325065	17·5039447	·0001864628
5364	$2^2.3^2.149$	28772496	154335668544	73·2393337	17·5050325	·0001864280
5365	5.29.37	28783225	154422002125	73·2461603	17·5061203	·0001863933
5366	2.2683	28793956	154508367896	73·2529863	17·5072079	·0001863586
5367	3.1789	28804689	154594765863	73·2598117	17·5082954	·0001863238
5368	$2^3.11.61$	28815424	154681196032	73·2666364	17·5093827	·0001862891
5369	7.13.59	28826161	154767658409	73·2734604	17·5104699	·0001862544
5370	2.3.5.179	28836900	154854153000	73·2802839	17·5115569	·0001862197
5371	41.131	28847641	154940679811	73·2871067	17·5126439	·0001861851
5372	$2^2.17.79$	28858384	155027238848	73·2939288	17·5137307	·0001861504
5373	$3^3.199$	28869129	155113830117	73·3007503	17·5148174	·0001861158
5374	2.2687	28879876	155200453624	73·3075712	17·5159039	·0001860811
5375	$5^3.43$	28890625	155287109375	73·3143915	17·5169903	·0001860465
5376	$2^6.3.7$	28901376	155373797376	73·3212111	17·5180766	·0001860119
5377	19.283	28912129	155460517633	73·3280301	17·5191627	·0001859773
5378	2.2689	28922884	155547270152	73·3348484	17·5202487	·0001859427
5379	3.11.163	28933641	155634054939	73·3416662	17·5213345	·0001859082
5380	$2^2.5.269$	28944400	155720872000	73·3484833	17·5224203	·0001858736
5381	.....	28955161	155807721341	73·3552997	17·5235059	·0001858391
5382	$2.3^2.13.23$	28965924	155894602968	73·3621156	17·5245913	·0001858045
5383	7.769	28976689	155981516887	73·3689307	17·5256766	·0001857700
5384	$2^3.673$	28987456	156068463104	73·3757453	17·5267618	·0001857355
5385	3.5.359	28998225	156155441625	73·3825592	17·5278469	·0001857010
5386	2.2693	29008996	156242452456	73·3893725	17·5289318	·0001856665
5387	.....	29019769	156329495603	73·3961852	17·5300165	·0001855321
5388	$2^2.3.449$	29030544	156416571072	73·4029972	17·5311012	·0001855976
5389	17.317	29041321	156503678869	73·4098086	17·5321857	·0001855632
5390	$2.5.7^2.11$	29052100	156590819000	73·4166194	17·5332701	·0001855288
5391	$3^2.599$	29062881	156677991471	73·4234295	17·5343543	·0001854943
5392	$2^4.337$	29073664	156765196288	73·4302390	17·5354384	·0001854599
5393	.....	29084449	156852433457	73·4370478	17·5365224	·0001854256
5394	2.3.29.31	29095236	156939702984	73·4438561	17·5376062	·0001853912
5395	5.13.83	29106025	157027004875	73·4506637	17·5386899	·0001853568
5396	$2^2.19.71$	29116816	157114339136	73·4574706	17·5397735	·0001853225
5397	3.7.257	29127609	157201705773	73·4642770	17·5408569	·0001852881
5398	2.2699	29138404	157289104792	73·4710827	17·2419402	·0001852538
5399	.....	29149201	157376536199	73·4778878	17·5430234	·0001852195

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5400	$2^3.3^3.5^2$	29160000	157464000000	73·4846923	17·5441064	·0001851852
5401	11.491	29170801	157551496201	73·4914961	17·5451893	·0001851509
5402	2.37.73	29181604	157639024808	73·4982993	17·5462721	·0001851166
5403	3.1801	29192409	157726585827	73·5051019	17·5473547	·0001850824
5404	$2^2.7.193$	29203216	157814179264	73·5119038	17·5484372	·0001850481
5405	5.23.47	29214025	157901805125	73·5187051	17·5495196	·0001850139
5406	2.3.17.53	29224836	157989463416	73·5255058	17·5506018	·0001849797
5407	.....	29235649	158077154143	73·5323059	17·5516839	·0001849454
5408	$2^5.13^2$	29246464	158164877312	73·5391053	17·5527659	·0001849112
5409	$3^2.601$	29257281	158252632929	73·5459040	17·5538477	·0001848771
5410	2.5.541	29268100	158340421000	73·5527022	17·5549294	·0001848429
5411	7.773	29278921	158428241531	73·5594997	17·5560110	·0001848087
5412	$2^2.3.11.41$	29289744	158516094528	73·5662967	17·5570924	·0001847746
5413	.....	29300569	158603979997	73·5730929	17·5581737	·0001847404
5414	2.2707	29311396	158691897944	73·5798886	17·5592549	·0001847063
5415	$3.5.19^2$	29322225	158779848375	73·5866836	17·5603359	·0001846722
5416	$2^3.677$	29333056	158867831296	73·5934780	17·5614168	·0001846381
5417	.....	29343889	158955846713	73·6002718	17·5624976	·0001846040
5418	$2.3^2.7.43$	29354724	159043894632	73·6070649	17·5635782	·0001845700
5419	.....	29365561	159131975059	73·6138574	17·5646587	·0001845359
5420	$2^2.5.271$	29376400	159220088000	73·6206493	17·5657391	·0001845018
5421	3.13.139	29387241	159308233461	73·6274406	17·5668193	·0001844678
5422	2.2711	29398084	159396411448	73·6342312	17·5678995	·0001844338
5423	11.17.29	29408929	159484621967	73·6410212	17·5689794	·0001843998
5424	$2^4.3.113$	29419776	159572865024	73·6478106	17·5700593	·0001843658
5425	$5^2.7.31$	29430625	159661140625	73·6545994	17·5711390	·0001843318
5426	2.2713	29441476	159749448776	73·6613875	17·5722186	·0001842978
5427	$3^4.67$	29452329	159837789483	73·6681749	17·5732980	·0001842639
5428	$2^2.23.59$	29463184	159926162752	73·6749618	17·5743773	·0001842299
5429	61 89	29474041	160014568589	73·6817480	17·5754565	·0001841960
5430	2.3.5.181	29484900	160103007000	73·6885337	17·5765355	·0001841621
5431	.....	29495761	160191477991	73·6953187	17·5776145	·0001841282
5432	$2^3.7.97$	29506624	160279981568	73·7021030	17·5786932	·0001840943
5433	3.1811	29517489	160368517737	73·7088868	17·5797719	·0001840604
5434	2.11.13.19	29528356	160457086504	73·7156699	17·5808504	·0001840265
5435	5.1087	29539225	160545687875	73·7224525	17·5819288	·0001839926
5436	$2^2.3^2.151$	29550096	160634321856	73·7292344	17·5830070	·0001839588
5437	.....	29560969	160722988453	73·7360156	17·5840851	·0001839250
5438	2.2719	29571844	160811687672	73·7427962	17·5851631	·0001838911
5439	$3.7^2.37$	29582721	160900419519	73·7495763	17·5862410	·0001838573
5440	$2^6.5.17$	29593600	160989184000	73·7563556	17·5873187	·0001838235
5441	.....	29604481	161077981121	73·7631344	17·5883963	·0001837897
5442	2.3.907	29615364	161166810888	73·7699125	17·5894737	·0001837560
5443	.....	29626249	161255673307	73·7766901	17·5905511	·0001837222
5444	$2^2.1361$	29637136	161344568384	73·7834670	17·5916282	·0001836885
5445	$3^2.5.11^2$	29648025	161433496125	73·7902433	17·5927053	·0001836547
5446	2.7.389	29658916	161522456536	73·7970189	17·5937822	·0001836210
5447	13.419	29669809	161611449623	73·8037939	17·5948590	·0001835873
5448	$2^3.3.227$	29680704	161700475392	73·8105683	17·5959357	·0001835536
5449	.....	29691601	161789533849	73·8173421	17·5970123	·0001835199
5450	$2.5^2.109$	29702500	161878625000	73·8241153	17·5980887	·0001834862
5451	3.23.79	29713401	161967748851	73·8308879	17·5991649	·0001834526
5452	$2^2.29.47$	29724304	162056905408	73·8376598	17·6002411	·0001834189
5453	7.19.41	29735209	162146094677	73·8444311	17·6013171	·0001833853
5454	$2.3^3.101$	29746116	162235316664	73·8512018	17·6023930	·0001833517
5455	5.1091	29757025	162324571375	73·8579718	17·6034687	·0001833181
5456	$2^4.11.31$	29767936	162413858816	73·8647413	17·6045443	·0001832845
5457	3.17.107	29778849	162503178993	73·8715101	17·6056198	·0001832509
5458	2.2729	29789764	162592531912	73·8782783	17·6066951	·0001832174
5459	53.103	29800681	162681917579	73·8850459	17·6077703	·0001831837

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5460	$2^2.3.5.7.13$	29811600	162771336000	73·8918128	17·6088454	·0001831502
5461	43.127	29822521	162860787181	73·8985792	17·6099204	·0001831166
5462	2.2731	29833444	162950271128	73·9053449	17·6109952	·0001830831
5463	$3^2.607$	29844369	163039787847	73·9121100	17·6120699	·0001830496
5464	$2^3.683$	29855296	163129337344	73·9188745	17·6131444	·0001830161
5465	5.1093	29866225	163218919625	73·9256383	17·6142188	·0001829826
5466	2.3.911	29877156	163308534696	73·9324016	17·6152932	·0001829491
5467	7.11.71	29888089	163398182563	73·9391642	17·6163673	·0001829157
5468	$2^2.1367$	29899024	163487863232	73·9459262	17·6174414	·0001828822
5469	3.1823	29909961	163577576709	73·9526876	17·6185153	·0001828488
5470	2.5.547	29920900	163667323000	73·9594484	17·6195891	·0001828154
5471	.....	29931841	163757102111	73·9662085	17·6206628	·0001827819
5472	$2^3.3^2.19$	29942784	163846914048	73·9729680	17·6217363	·0001827485
5473	13.421	29953729	163936758817	73·9797270	17·6228097	·0001827151
5474	2.7.17.23	29964676	164026636424	73·9864853	17·6238829	·0001826818
5475	$3.5^2.73$	29975625	164116546875	73·9932430	17·6249560	·0001826484
5476	$2^2.37^2$	29986576	164206490176	74·0000000	17·6260290	·0001826150
5477	.....	29997529	164296466333	74·0067564	17·6271019	·0001825817
5478	2.3.11.83	30008484	164386475352	74.0135123	17·6281746	·0001825484
5479	.....	30019441	164476517239	74·0202675	17·6292472	·0001825151
5480	$2^3.5.137$	30030400	164566592000	74·0270221	17·6303196	·0001824818
5481	$3^3.7.29$	30041361	164656699641	74·0337761	17·6313920	·0001824485
5482	2.2741	30052324	164746840168	74·0405295	17·6324642	·0001824152
5483	.....	30063289	164837013587	74·0472822	17·6335363	·0001823819
5484	$2^2.3.457$	30074256	164927219904	74·0540344	17·6346082	·0001823487
5485	5.1097	30085225	165017459125	74·0607859	17·6356800	·0001823154
5486	2.13.211	30096196	165107731256	74·0675368	17·6367517	·0001822822
5487	3.31.59	30107169	165198036303	74·0742871	17·6378233	·0001822490
5488	$2^4.7^3$	30118144	165288374272	74·0810368	17·6388947	·0001822157
5489	11.499	30129121	165378745169	74·0877858	17·6399660	·0001821825
5490	$2.3^2.5.61$	30140100	165469149000	74·0945342	17·6410372	·0001821494
5491	$17^2.19$	30151081	165559585771	74·1012820	17·6421082	·0001821162
5492	$2^2.1373$	30162064	165650055488	74·1080292	17·6431791	·0001820830
5493	3.1831	30173049	165740558157	74·1147758	17·6442499	·0001820499
5494	2.41.67	30184036	165831093784	74·1215218	17·6453206	·0001820167
5495	5.7.157	30195025	165921662375	74·1282672	17·6463911	·0001819836
5496	$2^3.3.229$	30206016	166012263936	74·1350119	17·6474615	·0001819505
5497	23.239	30217009	166102898473	74·1417561	17·6485317	·0001819174
5498	2.2749	30228004	166193565992	74·1484996	17·6496018	·0001818843
5499	$3^2.13.47$	30239001	166284266499	74·1552426	17·6506718	·0001818512
5500	$2^2.5^3.11$	30250000	166375000000	74·1619849	17·6517417	·0001818181
5501	.....	30261001	166465766501	74·1687266	17·6528114	·0001817851
5502	2.3.7.131	30272004	166556566008	74·1754676	17·6538810	·0001817521
5503	.....	30283009	166647398527	74·1822081	17·6549505	·0001817191
5504	27.43	30294016	166738264064	74·1889480	17·6560198	·0001816860
5505	3.5.367	30305025	166829162625	74·1956872	17·6570891	·0001816530
5506	2.2753	30316036	166920094216	74·2024258	17·6581582	·0001816201
5507	.....	30327049	167011058843	74·2091639	17·6592271	·0001815871
5508	$2^2.3^4.17$	30338064	167102056512	74·2159013	17·6602959	·0001815541
5509	7.787	30349081	167193087229	74·2226381	17·6613646	·0001815211
5510	2.5.19.29	30360100	167284151000	74·2293742	17·6624332	·0001814882
5511	3.11.167	30371121	167375247831	74·2361098	17·6635017	·0001814553
5512	$2^3.13.53$	30382144	167466377728	74·2428448	17·6645700	·0001814224
5513	37.149	30393169	167557540697	74·2495791	17·6656382	·0001813895
5514	2.3.919	30404196	167648736744	74·2563129	17·6667062	·0001813565
5515	5.1103	30415225	167739965875	74·2630460	17·6677742	·0001813237
5516	$2^2.7.197$	30426256	167831228096	74·2697785	17·6688419	·0001812908
5517	$3^2.613$	30437289	167922523413	74·2765104	17·6699096	·0001812579
5518	2.31.89	30448324	168013857832	74·2832417	17·6709771	·0001812251
5519	.....	30459361	168105213359	74·2899724	17·6720445	·0001811922

Numb.	Factors.	Squares.	Cubes.	Sq. Roots	Cu. Roots.	Reciprocals.
5520	$2^4.3.5.23$	30470400	168196608000	74·2967025	17·6731118	·0001811594
5521	.....	30481441	168285035761	74·3034320	17·6741790	·0001811266
5522	2.11.251	30492484	168379496648	74·3101608	17·6752460	·0001810938
5523	3.7.263	30503529	168470990667	74·3168891	17·6763129	·0001810610
5524	$2^2.1381$	30514576	168562517824	74·3236167	17·6773797	·0001810282
5525	$5^2.13.17$	30525625	168654078125	74·3303437	17·6784463	·0001819955
5526	$2.3^2.307$	30536676	168745671576	74·3370702	17·6795128	·0001809627
5527	.....	30547729	168837298183	74·3437960	17·6805792	·0001809300
5528	$2^3.691$	30558784	168928957952	74·3505212	17·6816454	·0001808973
5529	3.19.97	30569841	169020650889	74·3572458	17·6827116	·0001808645
5530	2.5.7.79	30580900	169112377000	74·3639698	17·6837776	·0001808318
5531	.....	30591961	169204136291	74·3706932	17·6848434	·0001807991
5532	$2^2.3.461$	30603024	169295928768	74·3774159	17·6859092	·0001807664
5533	11.503	30614089	169387754437	74·3841381	17·6869748	·0001807338
5534	2.2767	30625156	169479613304	74·3908596	17·6880403	·0001807011
5535	$3^2.5.41$	30636225	169571505375	74·3975806	17·6891056	·0001806685
5536	$2^5..173$	30647296	169663430656	74·4043010	17·6901708	·0001806358
5537	$7^2.113$	30658369	169755389153	74·4110207	17·6912359	·0001806032
5538	2.3.13.71	30669444	169847380872	74·4177399	17·6923009	·0001805706
5539	29.191	30680521	169939405819	74·4244584	17·6933658	·0001805380
5540	$2^2.5.277$	30691600	170031464000	74·4311763	17·6944305	·0001805054
5541	3.1847	30702681	170123555421	74·4378936	17·6954950	·0001804728
5542	2.17.163	30713764	170215680088	74·4446103	17·6965595	·0001804403
5543	23.241	30724849	170307838007	74·4513264	17·6976238	·0001804077
5544	$2^3.3^2.7.11$	30735936	170400029184	74·4580419	17·6986880	·0001803752
5545	5.1109	30747025	170492253625	74·4647568	17·6997521	·0001803427
5546	2.47.59	30758116	170584511336	74·4714711	17·7008160	·0001803101
5547	3.43^2	30769209	170676802323	74·4781848	17·7018798	·0001802776
5548	$2^2.19.73$	30780304	170769126592	74·4848979	17·7029435	·0001802451
5549	31.179	30791401	170861484149	74·4916103	17·7040071	·0001802127
5550	$2.3.5^2.37$	30802500	170953875000	74·4983222	17·7050705	·0001801802
5551	7.13.61	30813601	171046299151	74·5050334	17·7061338	·0001801477
5552	$2^4.347$	30824704	171138756608	74·5117441	17·7071970	·0001801153
5553	$3^2.617$	30835809	171231247377	74·5184541	17·7082600	·0001800828
5554	2.2777	30846916	171323771464	74·5251635	17·7093229	·0001800504
5555	5.11.101	30858025	171416328875	74·5318723	17·7103857	·0001800180
5556	$2^2.3.463$	30869136	171508919616	74·5385806	17·7114484	·0001799856
5557	.....	30880249	171601543693	74·5452882	17·7125109	·0001799532
5558	2.7.397	30891364	171694201112	74·5519952	17·7135733	·0001799208
5559	3.17.109	30902481	171786891879	74·5587017	17·7146356	·0001798885
5560	$2^3.5.139$	30913600	171879616000	74·5654075	17·7156978	·0001798561
5561	67.83	30924721	171972373481	74·5721127	17·7167598	·0001798238
5562	$2.3^3.103$	30935844	172065164328	74·5788174	17·7178217	·0001797914
5563	.....	30946969	172157988547	74·5855214	17·7188835	·0001797591
5564	$2^2.13.107$	30958096	172250846144	74·5922248	17·7199451	·0001797268
5565	3.5.7.53	30969225	172343737125	74·5989276	17·7210067	·0001796945
5566	$2.11^2.23$	30980356	172436661496	74·6056298	17·7220681	·0001796622
5567	19.293	30991489	172529619263	74·6123314	17·7231293	·0001796300
5568	$2^6.3.29$	31002624	172622610432	74·6190324	17·7241905	·0001795977
5569	.....	31013761	172715635009	74·6257328	17·7252515	·0001795655
5570	2.5.557	31024900	172808693000	74·6324326	17·7263124	·0001795332
5571	$3^2.619$	31036041	172901784411	74·6391318	17·7273731	·0001795010
5572	$2^2.7.199$	31047184	172994909248	74·6458304	17·7284338	·0001794688
5573	.....	31058329	173088067517	74·6525284	17·7294943	·0001794366
5574	2.3.929	31069476	173181259224	74·6592258	17·7305547	·0001794044
5575	$5^2.223$	31080625	173274484375	74·6659226	17·7316149	·0001793722
5576	$2^3.17.41$	31091776	173367742976	74·6726188	17·7326750	·0001793400
5577	$3.11.13^2$	31102929	173461035033	74·6793144	17·7337350	·0001793079
5578	2.2789	31114084	173554360552	74·6860094	17·7347949	·0001792757
5579	7.797	31125241	173647719539	74·6927038	17·7358546	·0001792436

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5580	$2^2.3^2.5.31$	31136400	173741112000	74·6993976	17·7369142	·0001792115
5581	.....	31147561	173834537941	74·7060908	17·7379737	·0001791794
5582	2.2791	31158724	173927997368	74·7127834	17·7390331	·0001791473
5583	3.1861	31169889	174021490287	74·7194754	17·7400923	·0001791152
5584	$2^4.349$	31181056	174115016704	74·7261668	17·7411514	·0001790831
5585	5.1117	31192225	174208576625	74·7328576	17·7422104	·0001790510
5586	$2.3.7^2.19$	31203396	174302170056	74·7395478	17·7432692	·0001790190
5587	37.151	31214569	174395797003	74·7462374	17·7443280	·0001789869
5588	$2^2.11.127$	31225744	174489457472	74·7529264	17·7453866	·0001789549
5589	$3^4.23$	31236921	174583151469	74·7596148	17·7464450	·0001789229
5590	2.5.13.43	31248100	174676879000	74·7663026	17·7475034	·0001788909
5591	.....	31259281	174770640071	74·7729898	17·7485616	·0001788589
5592	$2^3.3.233$	31270464	174864434688	74·7796764	17·7496197	·0001788269
5593	7.17.47	31281649	174958262857	74·7863624	17·7506777	·0001787949
5594	2.2797	31292836	175052124584	74·7930478	17·7517356	·0001787630
5595	3.5.373	31304025	175146019875	74·7997326	17·7527933	·0001787310
5596	$2^2.1399$	31315216	175239948736	74·8064168	17·7538509	·0001786991
5597	29.193	31326409	175333911173	74·8131004	17·7549084	·0001786671
5598	2.9.311	31337604	175427907192	74·8197835	17·7559657	·0001786352
5599	11.509	31348801	175521936799	74·8264659	17·7570229	·0001786033
5600	$2^5.5^2.7$	31360000	175616000000	74·8331478	17·7580800	·0001785714
5601	3.1867	31371201	175710096801	74·8398290	17·7591370	·0001785395
5602	2.2801	31382404	175804227208	74·8465096	17·7601938	·0001785077
5603	13.431	31393609	175898391227	74·8531897	17·7612506	·0001784758
5604	$2^2.3.467$	31404816	175992588864	74·8598691	17·7623071	·0001784440
5605	5.19.59	31416025	176086820125	74·8665480	17·7633636	·0001784121
5606	2.2803	31427236	176181085016	74·8732262	17·7644199	·0001783803
5607	$3^2.7.89$	31438449	176275383543	74·8799038	17·7654762	·0001783485
5608	$2^3.701$	31449664	176369715712	74·8865809	17·7665323	·0001783167
5609	71.79	31460881	176464081529	74·8932574	17·7675882	·0001782849
5610	2.3.5.11.17	31472100	176558481000	74·8999333	17·7686440	·0001782531
5611	31.181	31483321	176652914131	74·9066086	17·7696997	·0001782214
5612	$2^2.23.61$	31494544	176747380928	74·9132832	17·7707553	·0001781896
5613	3.1871	31505769	176841881397	74·9199573	17·7718108	·0001781578
5614	2.7.401	31516996	176936415544	74·9266308	17·7728661	·0001781261
5615	5.1123	31528225	177030983375	74·9333037	17·7739213	·0001780944
5616	$2^4.3^3.13$	31539456	177125584896	74·9399760	17·7749764	·0001780627
5617	41.137	31550689	177220220113	74·9466477	17·7760313	·0001780310
5618	2.53^2	31561924	177314889032	74·9533188	17·7770862	·0001779993
5619	3.1873	31573161	177409591659	74·9599893	17·7781409	·0001779676
5620	$2^2.5.281$	31584400	177504328000	74·9666592	17·7791954	·0001779359
5621	7.11.73	31595641	177599098061	74·9733286	17·7802499	·0001779043
5622	2.3.937	31606884	177693901848	74·9799973	17·7813042	·0001778726
5623	.....	31618129	177788739367	74·9866655	17·7823584	·0001778410
5624	$2^3.19.37$	31629376	177883610624	74·9933331	17·7834125	·0001778093
5625	$3^2.5^4$	31640625	177978515625	75·0000000	17·7844665	·0001777778
5626	2.29.97	31651876	178073454376	75·0066664	17·7855204	·0001777462
5627	17.331	31663129	178168426883	75·0133321	17·7865741	·0001777146
5628	$2^2.3.7.67$	31674384	178263433152	75·0199973	17·7876277	·0001776830
5629	13.433	31685641	178358473189	75·0266619	17·7886811	·0001776514
5630	2.5.563	31696900	178453547000	75·0333259	17·7897345	·0001776199
5631	3.1877	31708161	178548654591	75·0399893	17·7907877	·0001775884
5632	$2^9.11$	31719424	178643795968	75·0466521	17·7918408	·0001775568
5633	43.131	31730689	178738971137	75·0533144	17·7928937	·0001775253
5634	$2.3^2.313$	31741956	178834180104	75·0599760	17·7939465	·0001774938
5635	$5.7^2.23$	31753225	178929422875	75·0666371	17·7949992	·0001774623
5636	$2^2.1409$	31764496	179024699456	75·0732975	17·7960518	·0001774308
5637	3.1879	31775769	179120009853	75·0799574	17·7971043	·0001773993
5638	2.2819	31787044	179215354072	75·0866166	17·7981566	·0001773679
5639	.....	31798321	179310732119	75·0932753	17·7992088	·0001773364

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5640	$2^3.3.5.47$	31809600	179406144000	75·0999334	17·8002609	·0001773050
5641	.....	31820881	179501589721	75·1065909	17·8013128	·0001772735
5642	2.7.13.31	31832164	179597069288	75·1132478	17·8023647	·0001772421
5643	$3^3.11.19$	31843449	179692582707	75·1199042	17·8034164	·0001772107
5644	$2^2.17.83$	31854736	179788129984	75·1265599	17·8044680	·0001771793
5645	5.1129	31866025	179883711125	75·1332150	17·8055195	·0001771479
5646	2.3.941	31877316	179979326136	75·1398696	17·8065708	·0001771165
5647	.....	31888609	180074975023	75·1465235	17·8076221	·0001770852
5648	$2^4.353$	31899904	180170657792	75·1531769	17·8086731	·0001770538
5649	3.7.269	31911201	180266374449	75·1598297	17·8097241	·0001770225
5650	$2.5^2.113$	31922500	180362125000	75·1664819	17·8107749	·0001769911
5651	.....	31933801	180457909451	75·1731335	17·8118257	·0001769598
5652	$2^2.3^2.157$	31945104	180553727808	75·1797845	17·8128763	·0001769285
5653	.....	31956409	180649580077	75·1864350	17·8139267	·0001768972
5654	2 11.257	31967716	180745466264	75·1930848	17·8149771	·0001768659
5655	3.5.13.29	31979025	180841386375	75·1997341	17·8160273	·0001768347
5656	$2^3.7.101$	31990336	180937340416	75·2063827	17·8170774	·0001768034
5657	.....	32001649	181033328393	75·2130308	17·8181274	·0001767721
5658	2.3.23.41	32012964	181129350312	75·2196783	17·8191772	·0001767409
5659	.....	32024281	181225406179	75·2263252	17·8202269	·0001767097
5660	$2^2.5.283$	32035600	181321496000	75·2329715	17·8212765	·0001766785
5661	$3^2.17.37$	32046921	181417619781	75·2396172	17·8223260	·0001766472
5662	2.19.149	32058244	181513777528	75·2462624	17·8233754	·0001766160
5663	7.809	32069569	181609969247	75·2529069	17·8244246	·0001765848
5664	$2^6.3.59$	32080896	181706184944	75·2595509	17·8254738	·0001765537
5665	5.11.103	32092225	181802454625	75·2661943	17·8265228	·0001765225
5666	2 2833	32103556	181898748296	75·2728371	17·8275716	·0001764914
5667	3.1889	32114889	181995075963	75·2794793	17·8286204	·0001764602
5668	$2^2.13.109$	32126224	182091437632	75·2861209	17·8296690	·0001764291
5669	.....	32137561	182187833309	75·2927619	17·8307175	·0001763980
5670	$2.3^4.5.7$	32148900	182284263000	75·2994024	17·8317659	·0001763668
5671	53.107	32160241	182380726711	75·3060422	17·8328141	·0001763357
5672	$2^3.709$	32171584	182477224448	77·3126815	17·8338623	·0001763047
5673	3.31.61	32182929	182576756217	75·3193202	17·8349103	·0001762736
5674	2.2837	32194276	182670322024	75·3259583	17·8359581	·0001762425
5675	$5^2.227$	32205625	182766921875	75·3325958	17·8370059	·0001762115
5676	$2^2.3.11.43$	32216976	182863555776	75·3392328	17·8380535	·0001761804
5677	7.811	32228329	182960223733	75·3458692	17·8391010	·0001761494
5678	2.17.167	32239684	183056926752	75·3525049	17·8401484	·0001761184
5679	$3^2.631$	32251041	183153661839	75·3591401	17·8411957	·0001760873
5680	$2^4.5.71$	32262400	183250432000	75·3657747	17·8422428	·0001760563
5681	13.19.23	32273761	183347236241	75·3724087	17·8432898	·0001760253
5682	2.3.947	32285124	183444074568	75·3790422	17·8443367	·0001759943
5683	.....	32296489	183540946987	75·3856750	17·8453835	·0001759634
5684	$2^2.7^2.29$	32307856	183637853504	75·3923073	17·8464301	·0001759324
5685	3.5.379	32319225	183734794125	75·3989390	17·8474767	·0001759015
5686	2.2843	32330596	183831768856	75·4055701	17·8485231	·0001758706
5687	$11^2.47$	32341969	183928777703	75·4122006	17·8495694	·0001758396
5688	$2^3.3^2.79$	32353344	184025820672	75·4188305	17·8506155	·0001758087
5689	.....	32364721	184122897769	75·4254599	17·8516616	·0001757778
5690	2.5.569	32376100	184220009000	75·4320886	17·8527075	·0001757469
5691	3.7.271	32387481	184317154371	75·4387168	17·8537533	·0001757160
5692	$2^2.1423$	32398864	184414333888	75·4453444	17·8547989	·0001756852
5693	.....	32410249	184511547557	75·4519714	17·8558445	·0001756543
5694	2.3.13.73	32421636	184608795384	75·4585979	17·8568899	·0001756235
5695	5.17.67	32433025	184706077375	75·4652237	17·8579352	·0001755926
5696	$2^6.89$	32444416	184803393536	75·4718490	17·8589804	·0001755618
5697	$3^2.211$	32455809	184900743873	75·4784738	17·8600254	·0001755310
5698	2.7.11.37	32467204	184998128392	75·4850979	17·8610704	·0001755002
5699	41.139	32478601	185095547099	75·4917214	17·8621152	·0001754694

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5700	$2^2.3.5^2.19$	32490000	185193000000	75·4983443	17·8631598	·0001754386
5701	.....	32501401	185290487101	75·5049667	17·8642044	·0001754078
5702	2.2851	32512804	185388008408	75·5115885	17·8652488	·0001753771
5703	3.1901	32524209	185485563927	75·5182097	17·8662932	·0001753463
5704	$2^3.23.31$	32535616	185583153664	75·5248303	17·8673374	·0001753156
5705	5.7.163	32547025	185680777625	75·5314504	17·8683815	·0001752848
5706	$2.3^2.317$	32558436	185778435816	75·5380699	17·8694254	·0001752541
5707	13.439	32569849	185876128243	75·5446888	17·8704693	·0001752234
5708	$2^2.1427$	32581264	185973854912	75·5513071	17·8715130	·0001751927
5709	3.11.173	32592681	186071615829	75·5579248	17·8725566	·0001751620
5710	2.5.571	32604100	186169411000	75·5645419	17·8736001	·0001751313
5711	.....	32615521	186267240431	75·5711585	17·8746434	·0001751007
5712	$2^4.3.7.17$	32626944	186365104128	75·5777745	17·8756867	·0001750700
5713	29.197	32638369	186463002097	75·5843899	17·8767298	·0001750394
5714	2.2857	32649796	186560934344	75·5910047	17·8777727	·0001750088
5715	$3^2.5.127$	32661225	186658900875	75·5976190	17·8788156	·0001749781
5716	$2^2.1429$	32672656	186756901696	75·6042327	17·8798583	·0001749475
5717	.....	32684089	186854936813	75·6108458	17·8809009	·0001749169
5718	2.3.953	32695524	186953006232	75·6174583	17·8819434	·0001748863
5719	7.19.43	32706961	187051109959	75·6240702	17·8829858	·0001748557
5720	$2^3.5.11.13$	32718400	187149248000	75·6306816	17·8840280	·0001748252
5721	3.1907	32729841	187247420361	75·6372924	17·8850702	·0001747946
5722	2.2861	32741284	187345627048	75·6439026	17·8861122	·0001747641
5723	59.97	32752729	187443868067	75·6505122	17·8871541	·0001747335
5724	$2^2.3^2.53$	32764176	187542143424	75·6571213	17·8881959	·0001747030
5725	$5^2.229$	32775625	187640453125	75·6637298	17·8892375	·0001746725
5726	2.7.409	32787076	187738797176	75·6703377	17·8902790	·0001746420
5727	3.23.83	32798529	187837175583	75·6769450	17·8913205	·0001746115
5728	$2^5.179$	32809984	187935588352	75·6835518	17·8923617	·0001745810
5729	17.337	32821441	188034035489	75·6901579	17·8934029	·0001745505
5730	2.3.5.191	32832900	188132517000	75·6967635	17·8944439	·0001745201
5731	11.521	32844361	188231032891	75·7033685	17·8954849	·0001744896
5732	$2^2.1433$	32855824	188329583168	75·7099729	17·8965257	·0001744592
5733	$3^2.7^2.13$	32867289	188428167837	75·7165768	17·8975663	·0001744287
5734	2.47.61	32878756	188526786904	75·7231801	17·8986069	·0001743983
5735	5.31.37	32890225	188625440375	75·7297828	17·8996473	·0001743679
5736	$2^3.3.239$	32901696	188724128256	75·7363850	17·9006876	·0001743375
5737	.....	32913169	188822850553	75·7429865	17·9017278	·0001743071
5738	2.19.151	32924644	188921607272	75·7495875	17·9027679	·0001742768
5739	3.1913	32936121	189020398419	75·7561879	17·9038079	·0001742464
5740	$2^2.5.7.41$	32947600	189119224000	75·7627878	17·9048477	·0001742160
5741	.....	32959081	189218084021	75·7693870	17·9058874	·0001741857
5742	$2.3^2.11.29$	32970564	189316978488	75·7759856	17·9069270	·0001741553
5743	.....	32982049	189415907407	75·7825837	17·9079665	·0001741250
5744	$2^4.359$	32993536	189514870784	75·7891813	17·9090058	·0001740947
5745	3.5.383	33005025	189613868625	75·7957782	17·9100450	·0001740644
5746	$2.13^2.17$	33016516	189712900936	75·8023746	17·9110841	·0001740341
5747	7.821	33028009	189811967723	75·8089704	17·9121231	·0001740038
5748	$2^2.3.479$	33039504	189911068992	75·8155656	17·9131620	·0001739736
5749	.....	3305000!	180010204749	75·8221603	17·9142007	·0001739433
5750	$2.5^3.23$	33062500	180109375000	75·8287544	17·9152394	·0001739130
5751	$3^4.71$	33074001	190208579751	75·8353480	17·9162779	·0001738828
5752	$2^3.719$	33085504	190307819008	75·8419409	17·9173162	·0001738526
5753	11.523	33097009	190407092777	75·8485333	17·9183545	·0001738223
5754	2.3.7.137	33108516	190506401064	75·8551251	17·9193926	·0001737921
5755	5.1151	33120025	190605743875	75·8617163	17·9204307	·0001737619
5756	$2^2.1439$	33131536	190705121216	75·8683070	17·9214686	·0001737318
5757	3.19.101	33143049	190804533093	75·8748970	17·9225063	·0001737016
5758	2.2879	33154564	190903979512	75·8814866	17·9235440	·0001736714
5759	13.443	33166081	191003460479	75·8880755	17·9245815	·0001736413

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5760	$2^7.3^2.5$	33177600	191102976000	75·8946639	17·9256189	·0001736111
5761	7.823	33189121	191202526081	75·9012516	17·9266562	·0001735809
5762	2.43.67	33200644	191302110728	75·9078389	17·9276934	·0001735508
5763	3.17.113	33212169	191401729947	75·9144255	17·9287305	·0001735207
5764	$2^2.11.131$	33223696	191501383744	75·9210116	17·9297675	·0001734906
5765	5.1153	33235225	191601072125	75·9275971	17·9308043	·0001734605
5766	$2.3.31^2$	33246756	191700795096	75·9341820	17·9318410	·0001734305
5767	73.79	33258289	191800552668	75·9407664	17·9328776	·0001734004
5768	$2^3.7.103$	33269824	191900344832	75·9473502	17·9339140	·0001733703
5769	$3^2.641$	33281361	192000171609	75·9539334	17·9349504	·0001733403
5770	2.5.577	33292900	192100033000	75·9605161	17·9359866	·0001733102
5771	29.199	33304441	192199929011	75·9670981	17·9370227	·0001732802
5772	$2^2.3.13.37$	33315984	192299859648	75·9736796	17·9380587	·0001732502
5773	23.251	33327529	192399824917	75·9802606	17·9390946	·0001732202
5774	2.2887	33339076	192499824824	75·9868410	17·9401303	·0001731902
5775	$3.5^2.7.11$	33350625	192599859375	75·9934208	17·9411659	·0001731602
5776	$2^4.19^2$	33362176	192699928576	76·0000000	17·9422014	·0001731302
5777	53.109	33373729	192800032433	76·0065787	17·9432368	·0001731002
5778	$2.3^3.107$	33385284	192900170952	76·0131568	17·9442721	·0001730703
5779	.....	33396841	193000344139	76·0197343	17·9453072	·0001730403
5780	$2^2.5.17^2$	33408400	193100552000	76·0263112	17·9463422	·0001730104
5781	3.41.47	33419961	193200794541	76·0328876	17·9473771	·0001729805
5782	$2.7^2.59$	33431524	193301071768	76·0394635	17·9484119	·0001729505
5783	.....	33443089	193401383687	76·0460387	17·9494466	·0001729206
5784	$2^3.3.241$	33454656	193501730304	76·0526134	17·9504812	·0001728907
5785	5.13.89	33466225	193602111625	76·0591875	17·9515156	·0001728608
5786	2.11.263	33477796	193702527656	76·0657610	17·9525499	·0001728310
5787	$3^2.643$	33489369	193802978403	76·0723340	17·9535841	·0001728011
5788	$2^2.1447$	33500944	193903463872	76·0789064	17·9546182	·0001727713
5789	7.827	33512521	194003984069	76·0854783	17·9556521	·0001727414
5790	2.3.5.193	33524100	194104539000	76·0920495	17·9566860	·0001727116
5791	.....	33535681	194205128671	76·0986203	17·9577197	·0001726817
5792	$2^5.181$	33547264	194305753088	76·1051904	17·9587533	·0001726519
5793	3.1931	33558849	194406412257	76·1117600	17·9597868	·0001726221
5794	2.2897	33570436	194507106184	76·1183290	17·9608201	·0001725923
5795	5.19.61	33582025	194607834875	76·1248974	17·9618534	·0001725626
5796	$2^2.3^2.7.23$	33593616	194708598336	76·1314652	17·9628865	·0001725328
5797	11.17.31	33605209	194809396573	76·1380326	17·9639195	·0001725030
5798	2.13.233	33616804	194910229592	76·1445993	17·9649524	·0001724733
5799	3.1933	33628401	195011097399	76·1511655	17·9659852	·0001724435
5800	$2^3.5^2.29$	33640000	195112000000	76·1577311	17·9670178	·0001724138
5801	.....	33651601	195212937401	76·1642961	17·9680503	·0001723841
5802	2.3.967	33663204	195313909608	76·1708606	17·9690827	·0001723544
5803	7.829	33674809	195414916627	76·1774245	17·9701150	·0001723247
5804	$2^2.1451$	33686416	195515958464	76·1839878	17·9711471	·0001722950
5805	$3^3.5.43$	33698025	195617035125	76·1905506	17·9721792	·0001722653
5806	2.2903	33709636	195718146616	76·1971128	17·9732111	·0001722356
5807	.....	33721249	195819292943	76·2036744	17·9742430	·0001722060
5808	$2^4.3.11^2$	33732864	195920474112	76·2102355	17·9752747	·0001721763
5809	37.157	33744481	196021690129	76·2167960	17·9763062	·0001721467
5810	2.5.7.83	33756100	196122941000	76·2233559	17·9773377	·0001721170
5811	3.13.149	33767721	196224226731	76·2299153	17·9783690	·0001720874
5812	$2^2.1453$	33779344	196325547328	76·2364742	17·9794002	·0001720578
5813	.....	33790969	196426902797	76·2430324	17·9804314	·0001720282
5814	$2.3^2.17.19$	33802596	196528293144	76·2495902	17·9814625	·0001719986
5815	5.1163	33814225	196629718375	76·2561473	17·9824933	·0001719690
5816	$2^3.727$	33825856	196731178496	76·2627038	17·9835240	·0001719395
5817	3.7.277	33837489	196832673513	76·2692598	17·9845547	·0001719099
5818	2.2909	33849124	196934203432	76·2758153	17·9855852	·0001718804
5819	11.23^2	33860761	197035768259	76·2823702	17·9866156	·0001718508

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5820	$2^2.3.5.97$	33872400	197137368000	76·2889245	17·9876458	·0001718213
5821	.....	33884041	197239002661	76·2954782	17·9886760	·0001717918
5822	2.41.71	33895684	197340672248	76·3020314	17·9897061	·0001717623
5823	$3^2.647$	33907329	197442376767	76·3085841	17·9907360	·0001717328
5824	$2^6.7.13$	33918976	197544116224	76·3151361	17·9917658	·0001717033
5825	$5^2.233$	33930625	197645890625	76·3216876	17·9927955	·0001716738
5826	2.3.971	33942276	197747699976	76·3282385	17·9938250	·0001716444
5827	.....	33953929	197849544283	76·3347889	17·9948545	·0001716149
5828	$2^2.31.47$	33965584	197951423552	76·3413387	17·9958838	·0001715854
5829	3.29.67	33977241	198053337789	76·3478880	17·9969130	·0001715560
5830	2.5.11.53	33988900	198155287000	76·3544366	17·9979421	·0001715266
5831	$7^3.17$	34000561	198257271191	76·3609848	17·9989711	·0001714972
5832	$2^3.3^6$	34012224	198359290368	76·3675324	18·0000000	·0001714678
5833	19.307	34023889	198461344537	76·3740794	18·0010287	·0001714384
5834	2.2917	34035556	198563433704	76·3806258	18·0020574	·0001714090
5835	3.5.389	34047225	198665557875	76·3871717	18·0030859	·0001713796
5836	$2^2.1459$	34058896	198767717056	76·3937170	18·0041143	·0001713502
5837	13.449	34070569	198869911253	76·4002618	18·0051425	·0001713209
5838	2.3.7.139	34082244	198972140472	76·4068060	18·0061707	·0001712915
5839	.....	34093921	199074404719	76·4133496	18·0071988	·0001712622
5840	$2^4.5.73$	34105600	199176704000	76·4198927	18·0082267	·0001712329
5841	$3^2.11.59$	34117281	199279038321	76·4264352	18·0092545	·0001712036
5842	2.23.127	34128964	199381407688	76·4329772	18·0102822	·0001711743
5843	.....	34140649	199483812107	76·4395186	18·0113098	·0001711450
5844	$2^2.3.487$	34152336	199586251584	76·4460594	18·0123372	·0001711157
5845	5.7.167	34164025	199688726125	76·4525997	18·0133646	·0001710864
5846	2.37.79	34175716	199791235736	76·4591394	18·0143918	·0001710571
5847	3.1949	34187409	199893780423	76·4656786	18·0154189	·0001710278
5848	$2^3.17.43$	34199104	199996360192	76·4722172	18·0164459	·0001709986
5849	.....	34210801	200098975049	76·4787552	18·0174728	·0001709694
5850	$2.3^2.5^2.13$	34222500	200201625000	76·4852927	18·0184995	·0001709402
5851	.....	34234201	200304310051	76·4918296	18·0195261	·0001709110
5852	$2^2.7.11.19$	34245904	200407030208	76·4983660	18·0205526	·0001708817
5853	3.1951	34257609	200509785477	76·5049018	18·0215790	·0001708526
5854	2.2927	34269316	200612575864	76·5114371	18·0226053	·0001708234
5855	5.1171	34281025	200715401375	76·5179718	18·0236315	·0001707942
5856	$2^3.3.61$	34292736	200818262016	76·5245059	18·0246576	·0001707650
5857	.....	34304449	200921157793	76·5310395	18·0256835	·0001707359
5858	2.29.101	34316164	201024088712	76·5375725	18·0267093	·0001707067
5859	$3^3.7.31$	34327881	201127054779	76·5441049	18·0277350	·0001706776
5860	$2^2.5.293$	34339600	201230056000	76·5506368	18·0287606	·0001706485
5861	.....	34351321	201333092381	76·5571682	18·0297861	·0001706193
5862	2.3.977	34363044	201436163928	76·5636990	18·0308114	·0001705902
5863	11.13.41	34374769	201539270647	76·5702292	18·0318367	·0001705611
5864	$2^3.733$	34386496	201642412544	76·5767589	18·0328618	·0001705321
5865	3.5.17.23	34398225	201745589625	76·5832880	18·0338868	·0001705030
5866	2.7.419	34409956	201848801896	76·5898165	18·0349117	·0001704739
5867	.....	34421689	201952049363	76·5963445	18·0359364	·0001704449
5868	$2^2.3^2.163$	34433424	202055332032	76·6028720	18·0369611	·0001704158
5869	.....	34445161	202158649909	76·6093989	18·0379856	·0001703868
5870	2.5.587	34456900	202262003000	76·6159253	18·0390100	·0001703578
5871	3.19.103	34468641	202365391311	76·6224511	18·0400344	·0001703287
5872	$2^4.367$	34480384	202468814848	76·6289763	18·0410585	·0001702997
5873	7.839	34492129	202572273617	76·6355010	18·0420826	·0001702707
5874	2.3.11.89	34503876	202675767624	76·6420251	18·0431066	·0001702417
5875	$5^3.47$	34515625	202779296875	76·6485486	18·0441304	·0001702128
5876	$2^2.13.113$	34527376	202882861376	76·6550716	18·0451541	·0001701838
5877	$3^2.653$	34539129	202986461133	76·6615940	18·0461777	·0001701548
5878	2.2939	34550884	203090096152	76·6681159	18·0472012	·0001701259
5879	.....	34562641	203193766439	76·6746372	18·0482246	·0001700970

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5880	$2^3.3.5.7^2$	34574400	203297472000	76·6811580	18·0492479	·0001700680
5881	.....	34586161	203401212841	76·6876782	18·0502710	·0001700391
5882	2.17.173	34597924	203504988968	76·6941979	18·0512940	·0001700102
5883	3.37.53	34609689	203608800387	76·7007171	18·0523169	·0001699813
5884	$2^2.1471$	34621456	203712647104	76·7072356	18·0533398	·0001699524
5885	5.11.107	34633225	203816529125	76·7137537	18·0543625	·0001699235
5886	$2.3^3.109$	34644996	203920446456	76·7202711	18·0553850	·0001698947
5887	7.29^2	34656769	204024399103	76·7267880	18·0564075	·0001698658
5888	$2^3.23$	34668544	204128387072	76·7333043	18·0574298	·0001698370
5889	3.13.151	34680321	204232410369	76·7398201	18·0584520	·0001698081
5890	2.5.19.31	34692100	204336469000	76·7463354	18·0594741	·0001697793
5891	43.137	34703881	204440562971	76·7528501	18·0604960	·0001697505
5892	$2^2.3.491$	34715664	204544692288	76·7593642	18·0615179	·0001697217
5893	71.83	34727449	204648856957	76·7658778	18·0625396	·0001696929
5894	2.7.421	34739236	204753056984	76·7723908	18·0635612	·0001696641
5895	$3^2.5.131$	34751025	204857292375	76·7789034	18·0645828	·0001696353
5896	$2^3.11.67$	34762816	204961563136	76·7854153	18·0656041	·0001696065
5897	.....	34774609	205065869273	76·7919266	18·0666254	·0001695778
5898	2.3.983	34786404	205170210792	76·7984375	18·0676466	·0001695490
5899	17.347	34798201	205274587699	76·8049477	18·0686677	·0001695203
5900	$2^2.5^2.59$	34810000	205379000000	76·8114575	18·0696886	·0001694915
5901	3.7.281	34821801	205483447701	76·8179666	18·0707095	·0001694628
5902	2.13.227	34833604	205587930808	76·8244752	18·0717302	·0001694341
5903	.....	34845409	205692449327	76·8309833	18·0727509	·0001694054
5904	$2^4.3^2.41$	34857216	205797003264	76·8374908	18·0737714	·0001693767
5905	5.1181	34869025	205901592625	76·8439978	18·0747917	·0001693480
5906	2.2953	34880836	206006217416	76·8505042	18·0758120	·0001693193
5907	3.11.179	34892649	206110877643	76·8570101	18·0768320	·0001692907
5908	$2^2.7.211$	34904464	206215573312	76·8635154	18·0778521	·0001692620
5909	19.311	34916281	206320304429	76·8700201	18·0788720	·0001692334
5910	2.3.5.197	34928100	206425071000	76·8765244	18·0798918	·0001692047
5911	23.257	34939921	206529873031	76·8830280	18·0809115	·0001691761
5912	$2^3.7.39$	34951744	206634710528	76·8895311	18·0819310	·0001691475
5913	$3^4.73$	34963569	206739583497	76·8960337	18·0829504	·0001691189
5914	2.2957	34975396	206844491944	76·9025357	18·0839698	·0001690903
5915	$5.7.13^2$	34987225	206949435875	76·9090372	18·0849890	·0001690617
5916	$2^2.3.17.29$	34999056	207054415296	76·9155381	18·0860081	·0001690331
5917	61.97	35010889	207159430213	76·9220384	18·0870271	·0001690046
5918	2.11.269	35022724	207264480632	76·9285383	18·0880459	·0001689760
5919	3.1973	35034561	207369566559	76·9350375	18·0890647	·0001689475
5920	$2^6.5.37$	35046400	207474688000	76·9415362	18·0900834	·0001689189
5921	31.191	35058241	207579844961	76·9480344	18·0911019	·0001688904
5922	$2.3^2.7.47$	35070084	207685037448	76·9545320	18·0921203	·0001688619
5923	.....	35081929	207790265467	76·9610291	18·0931386	·0001688334
5924	$2^2.1481$	35093776	207895529024	76·9675256	18·0941568	·0001688049
5925	$3.5^2.79$	35105625	208000828125	76·9740216	18·0951748	·0001687764
5926	2.2963	35117476	208106162776	76·9805170	18·0961928	·0001687479
5927	.....	35129329	208211532983	76·9870119	18·0972107	·0001687194
5928	$2^3.3.13.19$	35141184	208316938752	76·9935063	18·0982284	·0001686910
5929	$7^2.11^2$	35153041	208422380089	77·0000000	18·0992460	·0001686625
5930	2.5.593	35164900	208527857000	77·0064932	18·1002635	·0001686341
5931	$3^2.659$	35176761	208633369491	77·0129859	18·1012809	·0001686056
5932	$2^2.1483$	35188624	208738917568	77·0194781	18·1022981	·0001685772
5933	17.349	35200489	208844501237	77·0259697	18·1033153	·0001685488
5934	2.3.23.43	35212356	208950120504	77·0324607	18·1043324	·0001685204
5935	5.1187	35224225	209055775375	77·0389512	18·1053493	·0001684920
5936	$2^4.7.53$	35236096	209161465856	77·0454412	18·1063661	·0001684636
5937	3.1979	35247969	209267191953	77·0519306	18·1073828	·0001684352
5938	2.2969	35259844	209372953672	77·0584194	18·1083994	·0001684069
5939	.....	35271721	209478751019	77·0649077	18·1094158	·0001683785

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
5940	$2^2.3^3.5.11$	35283600	209584584000	77·0713955	18·1104322	·0001683502
5941	13.457	35295481	209690452621	77·0778827	18·1114484	·0001683818
5942	2.2971	35307364	209796356888	77·0843694	18·1124645	·0001682935
5943	3.7.283	35319249	209902296807	77·0908555	18·1134806	·0001682652
5944	$2^3.743$	35331136	210008272384	77·0973411	18·1144965	·0001682369
5945	5.29.41	35343025	210114283625	77·1038262	18·1155123	·0001682086
5946	2.3.991	35354916	210220330536	77·1103107	18·1165279	·0001681803
5947	19.313	35366809	210326413123	77·1167946	18·1175435	·0001681520
5948	$2^2.1487$	35378704	210432531392	77·1232780	18·1185589	·0001681237
5949	$3^2.661$	35390601	210538685349	77·1297608	18·1195743	·0001680955
5950	$2.5^2.7.17$	35402500	210644875000	77·1362431	18·1205895	·0001680672
5951	11.541	35414401	210751100351	77·1427248	18·1216046	·0001680390
5952	$2^6.3.31$	35426304	210857361408	77·1492060	18·1226196	·0001680108
5953	.....	35438209	210963658177	77·1556867	18·1236345	·0001679825
5954	2.13.229	35450116	211069990664	77·1621668	18·1246492	·0001679543
5955	3.5.397	35462025	211176358875	77·1686464	18·1256639	·0001679261
5956	$2^2.1489$	35473936	211282762816	77·1751255	18·1266784	·0001678979
5957	7.23.37	35485849	211389202493	77·1816040	18·1276928	·0001678697
5958	$2.3^2.331$	35497764	211495677912	77·1880820	18·1287071	·0001678416
5959	59.101	35509681	211602189079	77·1945594	18·1297213	·0001678134
5960	$2^3.5.149$	35521600	211708736000	77·2010362	18·1307354	·0001677852
5961	3.1987	35533521	211815318681	77·2075126	18·1317494	·0001677571
5962	2.11.271	35545444	211921937128	77·2139883	18·1327632	·0001677289
5963	67.89	35557369	212028591347	77·2204636	18·1337769	·0001677008
5964	$2^2.3.7.71$	35569296	212135281344	77·2269383	18·1347905	·0001676727
5965	5.1193	35581225	212242007125	77·2334124	18·1358041	·0001676446
5966	2.19.157	35593156	212348768696	77·2398861	18·1368175	·0001676165
5967	$3^2.13.17$	35605089	212455566063	77·2463591	18·1378307	·0001675884
5968	$2^4.373$	35617024	212562399232	77·2528317	18·1388440	·0001675603
5969	47.127	35628961	212669268209	77·2593036	18·1398570	·0001675322
5970	2.3.5.199	35640900	212776173000	77·2657751	18·1408699	·0001675042
5971	7.853	35652841	212883113611	77·2722460	18·1418828	·0001674761
5972	$2^2.1493$	35664784	212990090048	77·2787163	18·1428955	·0001674481
2973	3.11.181	35676729	213097102317	77·2851862	18·1439081	·0001674201
5974	2.29.103	35688676	213204150424	77·2916554	18·1449206	·0001673920
5975	$5^2.239$	35700625	213311234375	77·2981242	18·1459329	·0001673640
5976	$2^3.3^2.83$	35712576	213418354176	77·3045924	18·1469452	·0001673360
5977	43.139	35724529	213525509833	77·3110600	18·1479574	·0001673080
5978	$2.7^2.61$	35736484	213632701352	77·3175271	18·1489694	·0001672800
5979	3.1993	35748441	213739928739	77·3239937	18·1499814	·0001672520
5980	$2^2.5.13.23$	35760400	213847192000	77·3304597	18·1509932	·0001672241
5981	.....	35772361	213954491141	77·3369252	18·1520049	·0001671961
5982	2.3.997	35784324	214061826168	77·3433902	18·1530165	·0001671682
5983	31.193	35796289	214169197087	77·3498545	18·1540280	·0001671402
5984	$2^5.11.17$	35808256	214276603904	77·3563184	18·1550394	·0001671123
5985	$3^2.5.7.19$	35820225	214384046625	77·3627817	18·1560506	·0001670844
5986	2.41.73	35832196	214491525256	77·3692445	18·1570618	·0001670565
5987	.....	35844169	214599039803	77·3757068	18·1580728	·0001670286
5988	$2^2.3.499$	35856144	214706590272	77·3821685	18·1590837	·0001670007
5989	53.113	35868121	214814176669	77·3886297	18·1600945	·0001669728
5990	2.5.599	35880100	214921799000	77·3950903	18·1611052	·0001669449
5991	3.1997	35892081	215029457271	77·4015504	18·1621158	·0001669170
5992	$2^3.7.107$	35904064	215137151488	77·4080099	18·1631262	·0001668892
5993	13.461	35916049	215244881657	77·4144689	18·1641366	·0001668613
5994	$2.3^4.37$	35928036	215352647784	77·4209274	18·1651468	·0001668335
5995	5.11.109	35940025	215460449875	77·4273853	18·1661570	·0001668057
5996	$2^2.1499$	35952016	215568287936	77·4338427	18·1671670	·0001667779
5997	3.1999	35964009	215676161973	77·4402996	18·1681769	·0001667500
5998	2.2999	35976004	215784071992	77·4467559	18·1691867	·0001667222
5999	7.857	35988001	215892017999	77·4532117	18·1701964	·0001666944

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6000	$2^4.3.5^3$	36000000	216000000000	77·4596669	18·1712060	·0001666667
6001	17.353	36012001	216108018001	77·4661216	18·1722154	·0001666389
6002	2.3001	36024004	216216072008	77·4725758	18·1732247	·0001666111
6003	$3^2.23.29$	36036009	216324162027	77·4790294	18·1742339	·0001665834
6004	$2^2.19.79$	36048016	216432288064	77·4854825	18·1752430	·0001665556
6005	5.1201	36060025	216540450125	77·4919351	18·1762520	·0001665279
6006	2.3.7.11.13	36072036	216648648216	77·4983871	18·1772609	·0001665002
6007	.....	36084049	216756882343	77·5048386	18·1782697	·0001664724
6008	$2^3.751$	36096064	216865152512	77·5112895	18·1792784	·0001664447
6009	3.2003	36108081	216973458729	77·5177399	18·1802870	·0001664170
6010	2.5.601	36120100	217081801000	77·5241898	18·1812954	·0001663894
6011	.....	36132121	217190179331	77·5306391	18·1823038	·0001663617
6012	$2^2.3^2.167$	36144144	217298593728	77·5370879	18·1833120	·0001663340
6013	7.859	36156169	217407044197	77·5435362	18·1843201	·0001663063
6014	2.31.97	36168196	217515530744	77·5499839	18·1853281	·0001662787
6015	3.5.401	36180225	217624053375	77·5564311	18·1863360	·0001662510
6016	27.47	36192256	217732612096	77·5628778	18·1873438	·0001662234
6017	11.547	36204289	217841206913	77·5693239	18·1883515	·0001661958
6018	2.3.17.59	36216324	217949837832	77·5757695	18·1893590	·0001661682
6019	13.463	36228361	218058504859	77·5822145	18·1903664	·0001661406
6020	$2^2.5.7.43$	36240400	218167208000	77·5886590	18·1913737	·0001661130
6021	$3^3.223$	36252441	218275947261	77·5951029	18·1923810	·0001660854
6022	2.3011	36264484	218384722648	77·6015464	18·1933881	·0001660578
6023	19.317	36276529	218493534167	77·6079892	18·1943950	·0001660302
6024	$2^3.3.251$	36288576	218602381824	77·6144316	18·1954020	·0001660027
6025	$5^2.241$	36300625	218711265625	77·6208734	18·1964087	·0001659751
6026	2.23.131	36312676	218820185576	77·6273147	18·1974154	·0001659476
6027	$3.7^2.41$	36324729	218929141683	77·6337555	18·1984219	·0001659200
6028	$2^2.11.137$	36336784	219038133952	77·6401957	18·1994284	·0001658925
6029	.....	36348841	219147162389	77·6466355	18·2004347	·0001658650
6030	$2.3^2.5.67$	36360900	219256227000	77·6530746	18·2014409	·0001658375
6031	37.163	36372961	219365327791	77·6595132	18·2024470	·0001658100
6032	$2^4.13.29$	36385024	219474464768	77·6659513	18·2034530	·0001657825
6033	3.2011	36397089	219583637937	77·6723889	18·2044589	·0001657550
6034	2.7.431	36409156	219692847304	77·6788259	18·2054647	·0001657275
6035	5.17.71	36421225	219802092875	77·6852624	18·2064703	·0001657001
6036	$2^2.3.503$	36433296	219911374656	77·6916983	18·2074759	·0001656726
6037	.....	36445369	220020692653	77·6981338	18·2084813	·0001656452
6038	2.3019	36457444	220130046872	77·7045687	18·2094866	·0001656178
6039	$3^2.11.61$	36469521	220239437319	77·7110031	18·2104918	·0001655903
6040	$2^3.5.151$	36481600	220348864000	77·7174369	18·2114969	·0001655629
6041	7.863	36493681	220458326921	77·7238702	18·2125019	·0001655355
6042	2.3.19.53	36505764	220567826088	77·7303030	18·2135068	·0001655081
6043	.....	36517849	220677361507	77·7367352	18·2145116	·0001654807
6044	$2^2.1511$	36529936	220786933184	77·7431669	18·2155162	·0001654533
6045	3.5.13.31	36542025	220896541125	77·7495981	18·2165208	·0001654260
6046	2.3023	36554116	221006185336	77·7560287	18·2175252	·0001653986
6047	.....	36566209	221115865823	77·7624588	18·2185296	·0001653713
6048	$2^5.3^3.7$	36578304	221225582592	77·7688884	18·2195338	·0001653439
6049	23.263	36590401	221335335649	77·7753174	18·2205379	·0001653166
6050	$2.5^2.11^2$	36602500	221445125000	77·7817459	18·2215419	·0001652893
6051	3.2017	36614601	221554950651	77·7881739	18·2225458	·0001652619
6052	$2^2.17.89$	36626704	221664812608	77·7946014	18·2235496	·0001652346
6053	.....	36638809	221774710877	77·8010283	18·2245532	·0001652073
6054	2.3.1009	36650916	221884645464	77·8074547	18·2255568	·0001651800
6055	5.7.173	36663025	221994616375	77·8138805	18·2265602	·0001651528
6056	$2^3.757$	36675136	222104623616	77·8203059	18·2275636	·0001651255
6057	$3^2.673$	36687249	222214667193	77·8267306	18·2285668	·0001650982
6058	2.13.233	36699364	222324747112	77·8331549	18·2295699	·0001650710
6059	73.83	36711481	222434863379	77·8395786	18·2305729	·0001650437

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6060	$2^2.3.5.101$	36723600	222545016000	77·8460018	18·2315758	·0001650165
6061	11.19.29	36735721	222655204981	77·8524245	18·2325786	·0001649893
6062	2.7.433	36747844	222765430328	77·8588466	18·2335812	·0001649621
6063	3.43.47	36759969	222875692047	77·8652682	18·2345838	·0001649349
6064	$2^4.379$	36772096	222985990144	77·8716893	18·2355862	·0001649077
6065	5.1213	36784225	223096324625	77·8781099	18·2365886	·0001648805
6066	$2.3^2.337$	36796356	223206695496	77·8845299	18·2375908	·0001648533
6067	.....	36808489	223317102763	77·8909494	18·2385930	·0001648261
6068	$2^2.37.41$	36820624	223427546432	77·8973684	18·2395950	·0001647989
6069	$3.7.17^2$	36832761	223538026509	77·9037868	18·2405969	·0001647718
6070	2.5.607	36844900	223648543000	77·9102047	18·2415987	·0001647446
6071	13.467	36857041	223759095911	77·9166221	18·2426003	·0001647175
6072	$2^3.3.11.23$	36869184	223869685248	77·9230390	18·2436019	·0001646904
6073	.....	36881329	223980311017	77·9294553	18·2446034	·0001646633
6074	2.3037	36893476	224090973224	77·9358711	18·2456048	·0001646362
6075	$3^5.5^2$	36905625	224201671875	77·9422863	18·2466060	·0001646091
6076	$2^2.7^2.31$	36917776	224312406976	77·9487011	18·2476071	·0001645820
6077	59.103	36929929	224423178533	77·9551153	18·2486082	·0001645549
6078	2.3.1013	36942084	224533986552	77·9615290	18·2496091	·0001645278
6079	.....	36954241	224644831039	77·9679422	18·2506099	·0001645007
6080	$2^6.5.19$	36966400	224755712000	77·9743548	18·2516106	·0001644737
6081	3.2027	36978561	224866629441	77·9807669	18·2526112	·0001644466
6082	2.3041	36990724	224977583368	77·9871785	18·2536116	·0001644196
6083	7.11.79	37002889	225088573787	77·9935895	18·2546120	·0001643926
6084	$2^2.3^2.13^2$	37015056	225199600704	78·0000000	18·2556122	·0001643655
6085	5.1217	37027225	225310664125	78·0064100	18·2566124	·0001643385
6086	2.17.179	37039396	225421764056	78·0128195	18·2576124	·0001643115
6087	3.2029	37051569	225532900503	78·0192284	18·2586123	·0001642845
6088	$2^3.761$	37063744	225644073472	78·0256369	18·2596121	·0001642576
6089	.....	37075921	225755282969	78·0320448	18·2606119	·0001642306
6090	2.3.5.7.29	37088100	225866529000	78·0384521	18·2616115	·0001642036
6091	.....	37100281	225977811571	78·0448589	18·2626110	·0001641767
6092	$2^2.1523$	37112464	226089130688	78·0512652	18·2636103	·0001641497
6093	$3^2.677$	37124649	226200486357	78·0576710	18·2646096	·0001641228
6094	2.11.277	37136836	226311878584	78·0640762	18·2656088	·0001640958
6095	5.23.53	37149025	226423307375	78·0704809	18·2666078	·0001640689
6096	$2^4.3.127$	37161216	226534772736	78·0768851	18·2676067	·0001640420
6097	7.13.67	37173409	226646274673	78·0832888	18·2686056	·0001640151
6098	2.3049	37185604	226757813192	78·0896920	18·2696043	·0001639882
6099	3.19.107	37197801	226869388299	78·0960946	18·2706029	·0001639613
6100	$2^2.5^2.61$	37210000	226981000000	78·1024967	18·2716013	·0001639344
6101	.....	37222201	227092648301	78·1088983	18·2725997	·0001639076
6102	$2.3^2.113$	37234404	227204333208	78·1152994	18·2735980	·0001638807
6103	17.359	37246609	227316054727	78·1216999	18·2745962	·0001638538
6104	$2^3.7.109$	37258816	227427812864	78·1280999	18·2755942	·0001638270
6105	3.5.11.37	37271025	227539607625	78·1344994	18·2765922	·0001638002
6106	2.43.71	37283236	227651439016	78·1408984	18·2775900	·0001637733
6107	31.197	37295449	227763307043	78·1472968	18·2785877	·0001637465
6108	$2^2.3.509$	37307664	227875211712	78·1536947	18·2795854	·0001637197
6109	41.149	37319881	227987153029	78·1600921	18·2805829	·0001636929
6110	2.5.13.47	37332100	228099131000	78·1664890	18·2815803	·0001636661
6111	$3^2.7.97$	37344321	228211145631	78·1728853	18·2825776	·0001636393
6112	$2^5.191$	37356544	228323196928	78·1792811	18·2835748	·0001636126
6113	.....	37368769	228435284897	78·1856764	18·2845719	·0001635858
6114	2.3.1019	37380996	228547409544	78·1920712	18·2855689	·0001635590
6115	5.1223	37393225	228659570875	78·1984654	18·2865657	·0001635323
6116	$2^2.11.139$	37405456	228771768896	78·2048592	18·2875625	·0001635056
6117	3.2039	37417689	228884003613	78·2112524	18·2885592	·0001634788
6118	2.7.19.23	37429924	228996275032	78·2176451	18·2895557	·0001634521
6119	29.211	37442161	229108583159	78·2240372	18·2905522	·0001634254

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6120	$2^3.3^2.5.17$	37454400	229220928000	78·2304289	18·2915485	·0001635987
6121	.....	37466641	229333309561	78·2368200	18·2925447	·0001633720
6122	2.3061	37478884	229445727848	78·2432106	18·2935408	·0001633453
6123	3.13.157	37491129	229558182867	78·2496006	18·2945368	·0001633186
6124	$2^2.1531$	37503376	229670674624	78·2559902	18·2955327	·0001632920
6125	$5^3.7^2$	37515625	229783203125	78·2623792	18·2965285	·0001632653
6126	2.3.1021	37527876	229895768376	78·2687677	18·2975242	·0001632387
6127	11.557	37540129	230008370383	78·2751557	18·2985198	·0001632120
6128	$2^4.383$	37552384	230121009152	78·2815432	18·2995152	·0001631854
6129	$3^3.227$	37564641	230233684689	78·2879301	18·3005106	·0001631588
6130	2.5.613	37576900	230346397000	78·2943165	18·3015058	·0001631321
6131	.....	37589161	230459146091	78·3007024	18·3025009	·0001631055
6132	$2^2.3.7.73$	37601424	230571931968	78·3070878	18·3034959	·0001630790
6133	.....	37613689	230684754637	78·3134727	18·3044909	·0001630523
6134	2.3067	37625956	230797614104	78·3198570	18·3054857	·0001630258
6135	3.5.409	37638225	230910510375	78·3262408	18·3064804	·0001629992
6136	$2^3.13.59$	37650496	231023443456	78·3326241	18·3074750	·0001629726
6137	17.19^2	37662769	231136413353	78·3390069	18·3084695	·0001629460
6138	$2.3^2.11.31$	37675044	231249420072	78·3453891	18·3094638	·0001629195
6139	7.877	37687321	231362463619	78·3517709	18·3104581	·0001628930
6140	$2^2.5.307$	37699600	231475544000	78·3581521	18·3114522	·0001628664
6141	3.23.89	37711881	231588661221	78·3645328	18·3124463	·0001628399
6142	2.37.83	37724164	231701815288	78·3709130	18·3134402	·0001628134
6143	.....	37736449	231815006207	78·3772926	18·3144341	·0001627869
6144	$2^{11}.3$	37748736	231928233984	78·3836718	18·3154278	·0001627604
6145	5.1229	37761025	232041498625	78·3900504	18·3164215	·0001627339
6146	2.7.439	37773316	232154800136	78·3964285	18·3174149	·0001627074
6147	$3^2.683$	37785609	232268138523	78·4028061	18·3184084	·0001626810
6148	$2^2.29.53$	37797904	232381513792	78·4091831	18·3194016	·0001626545
6149	11.13.43	37810201	232494925949	78·4155597	18·3203948	·0001626281
6150	$2.3.5^2.41$	37822500	232608375000	78·4219357	18·3213879	·0001626016
6151	.....	37834801	232721860951	78·4283112	18·3223809	·0001625751
6152	$2^3.769$	37847104	232835383808	78·4346862	18·3233738	·0001625488
6153	3.7.293	37859409	232948943577	78·4410607	18·3243666	·0001625223
6154	2.17.181	37871716	233062540264	78·4474346	18·3253592	·0001624959
6155	5.1231	37884025	233176173875	78·4538081	18·3263518	·0001624695
6156	$2^2.3^4.19$	37896336	233289844416	78·4601810	18·3273442	·0001624431
6157	47.131	37908649	233403551893	78·4665534	18·3283366	·0001624168
6158	2.3079	37920964	233517296312	78·4729253	18·3293288	·0001623904
6159	3.2053	37933281	233631077679	78·4792967	18·3303209	·0001623640
6160	$2^4.5.7.11$	37945600	233744896000	78·4856675	18·3313129	·0001623377
6161	61.101	37957921	233858751281	78·4920378	18·3323048	·0001623113
6162	2.3.13.79	37970244	233972643528	78·4984076	18·3332966	·0001622850
6163	.....	37982569	234086572747	78·5047769	18·3342883	·0001622586
6164	$2^2.23.67$	37994896	234200538944	78·5111457	18·3352798	·0001622323
6165	$3^2.5.137$	38007225	234314542125	78·5175140	18·3362713	·0001622060
6166	2.3083	38019556	234428582296	78·5238817	18·3372627	·0001621797
6167	7.881	38031889	234542659463	78·5302490	18·3382539	·0001621534
6168	$2^3.3.257$	38044224	234656773632	78·5366157	18·3392451	·0001621271
6169	31.199	38056561	234770924809	78·5429819	18·3402361	·0001621008
6170	2.5.617	38068900	234885113000	78·5493476	18·3412271	·0001621746
6171	$3.11^2.17$	38081241	234999338211	78·5557127	18·3422179	·0001620483
6172	$2^2.1543$	38093584	235113600448	78·5620774	18·3432086	·0001620220
6173	.....	38105929	235227899717	78·5684415	18·3441992	·0001619958
6174	$2.3^2.7^3$	38118276	235342236024	78·5748051	18·3451897	·0001619695
6175	$5^2.13.19$	38130625	235456609375	78·5811682	18·3461801	·0001619433
6176	$2^5.193$	38142976	235571019776	78·5875308	18·3471704	·0001619171
6177	3.29.71	38155329	235685467233	78·5938929	18·3481606	·0001618909
6178	2.3089	38167684	235799951752	78·6002544	18·3491507	·0001618647
6179	37.167	38180041	235914473339	78·6066155	18·3501406	·0001618385

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6180	$2^2.3.5.103$	38192400	236029032000	78·6129760	18·3511305	·0001618123
6181	7.883	38204761	236143627741	78·6193360	18·3521203	·0001617861
6182	2.11.281	38217124	236258260568	78·6256956	18·3531099	·0001617599
6183	$3^3.229$	38229489	236372930487	78·6320545	18·3540995	·0001617338
6184	$2^3.773$	38241856	236487637504	78·6384130	18·3550889	·0001617076
6185	5.1237	38254225	236602381625	78·6447709	18·3560783	·0001616815
6186	2.3.1031	38266596	236717162856	78·6511284	18·3570675	·0001616554
6187	23.269	38278969	236831981203	78·6574853	18·3580566	·0001616292
6188	$2^2.7.13.17$	38291344	236946836672	78·6638417	18·3590456	·0001616031
6189	3.2063	38303721	237061729269	78·6701976	18·3600345	·0001615770
6190	2.5.619	38316100	237176659000	78·6765530	18·3610233	·0001615509
6191	41.151	38328481	237291625871	78·6829079	18·3620120	·0001615248
6192	$2^4.3^2.43$	38340864	237406629888	78·6892623	18·3630006	·0001614987
6193	11.563	38353249	237521671057	78·6956161	18·3639891	·0001614726
6194	2.19.163	38365636	237636749384	78·7019695	18·3649775	·0001614466
6195	3·5.7.59	38378025	237751864875	78·7083223	18·3659658	·0001614205
6196	$2^2.1549$	38390416	237867017536	78·7146746	18·3669539	·0001613944
6197	.....	38402809	237982207373	78·7210264	18·3679420	·0001613684
6198	2.3.1033	38415204	238097434392	78·7273777	18·3689299	·0001613424
6199	.....	38427601	238212698599	78·7337285	18·3699178	·0001613163
6200	$2^3.5^2.31$	38440000	238328000000	78·7400787	18·3709055	·0001612905
6201	$3^2.13.53$	38452401	238443338601	78·7464285	18·3718931	·0001612643
6202	2.7.443	38464804	238558714408	78·7527777	18·2728807	·0001612383
6203	.....	38477209	238674127427	78·7591264	18·3738681	·0001612123
6204	$2^2.3.11.47$	38489616	238789577664	78·7654747	18·3748554	·0001611863
6205	5.17.73	38502025	238905065125	78·7718224	18·3758426	·0001611604
6206	2.29.107	38514436	239020589816	78·7781695	18·3768297	·0001611344
6207	3.2069	38526849	239136151743	78·7845162	18·3778167	·0001611084
6208	$2^6.97$	38539264	239251750912	78·7908624	18·3788036	·0001610825
6209	7.887	38551681	239367387329	78·7972081	18·3797904	·0001610565
6210	$2.3^3.5.23$	38564100	239483061000	78·8035532	18·3807771	·0001610306
6211	.....	38576521	239598771931	78·8098978	18·3817636	·0001610047
6212	$2^2.1553$	38588944	239714520128	78·8162420	18·3827501	·0001609788
6213	3.19.109	38601369	239830305597	78·8225856	18·3837364	·0001609528
6214	2.13.239	38613796	239946128344	78·8289287	18·3847227	·0001609269
6215	5.11.113	38626225	240061988375	78·8352713	18·3857088	·0001609010
6216	$2^3.3.7.37$	38638656	240177885696	78·8416133	18·3866949	·0001608752
6217	.....	38651089	240293820313	78·8479549	18·3876808	·0001608493
6218	2.3109	38663524	240409792232	78·8542960	18·3886666	·0001608234
6219	$3^2.691$	38675961	240525801459	78·8606366	18·3896523	·0001607976
6220	$2^2.5.311$	38688400	240641848000	78·8669766	18·2906379	·0001607717
6221	.....	38700841	240757931861	78·8733162	18·3916235	·0001607459
6222	2.3.17.61	38713284	240874053048	78·8796552	18·3926089	·0001607200
6223	$7^2.127$	38725729	240990211567	78·8859937	18·3935942	·0001606942
6224	$2^4.389$	38738176	241106407424	78·8923317	18·3945794	·0001606684
6225	$3.5^2.83$	38750625	241222640625	78·8986692	18·3955645	·0001606426
6226	2.11.283	38763076	241338911176	78·9050062	18·3965495	·0001606168
6227	13.479	38775529	241455219083	78·9113427	18·3975343	·0001605910
6228	$2^2.3^2.173$	38787984	241571564352	78·9176786	18·3985191	·0001605652
6229	.....	38800441	241687946989	78·9240141	18·3995038	·0001605394
6230	2.5.7.89	38812900	241804367000	78·9303491	18·4004883	·0001605136
6231	3.31.67	38825361	241920824391	78·9366835	18·4014728	·0001604879
6232	$2^3.19.41$	38837824	242037319168	78·9430174	18·4024572	·0001604621
6233	23.271	38850289	242153851337	78·9493509	18·4034414	·0001604364
6234	2.3.1039	38862756	242270420904	78·9556838	18·4044255	·0001604107
6235	5.29.43	38875225	242387027875	78·9620162	18·4054096	·0001603849
6236	$2^2.1559$	38887696	242503672256	78·9683481	18·4063935	·0001603592
6237	$3^4.7.11$	38900169	242620354053	78·9746795	18·4073773	·0001603335
6238	2.3119	38912644	242737073272	78·9810104	18·4083610	·0001603078
6239	17.367	38925121	242853829919	78·9873408	18·4093446	·0001602821

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6240	$2^5.3.5.13$	38937600	242970624000	78·9936707	18·4103282	·0001602564
6241	79^2	38950081	243087455521	79·0000000	18·4113116	·0001602307
6242	2.3121	38962564	243204324488	79·0063289	18·4122949	·0001602051
6243	3.2081	38975049	243321230907	79·0126572	18·4132781	·0001601794
6244	$2^2.7.223$	38987536	243438174784	79·0189851	18·4142612	·0001601537
6245	5.1249	39000025	243555156125	79·0253124	18·4152442	·0001601281
6246	$2.3^2.347$	39012516	243672174936	79·0316392	18·4162270	·0001601025
6247	.....	39025009	243789231293	79·0379656	18·4172098	·0001600768
6248	$2^3.11.71$	39037504	243906324992	79·0442914	18·4181925	·0001600512
6249	3.2083	39050001	244023456249	79·0506167	18·4191750	·0001600256
6250	2.5^5	39062500	244140625000	79·0569415	18·4201575	·0001600000
6251	7.19.47	39075001	244257831251	79·0632658	18·4211399	·0001599744
6252	$2^2.3.521$	39087504	244375075008	79·0695896	18·4221221	·0001599488
6253	$13^2.37$	39100009	244492356277	79·0759129	18·4231043	·0001599232
6254	2.53.59	39112516	244609675064	79·0822357	18·4240863	·0001598977
6255	$3^2.5.139$	39125025	244727031375	79·0885580	18·4250682	·0001598721
6256	$2^4.17.23$	39137536	244844425216	79·0948797	18·4260500	·0001598465
6257	.....	39150049	244961856593	79·1012010	18·4270318	·0001598210
6258	2.3.7.149	39162564	245079325512	79·1075217	18·4280134	·0001597955
6259	11.569	39175081	245196831979	79·1138420	18·4289949	·0001597699
6260	$2^2.5.313$	39187600	245314376000	79·1201617	18·4299763	·0001597444
6261	3.2087	39200121	245431957581	79·1264810	18·4309576	·0001597189
6262	2.31.101	39212644	245549576728	79·1327997	18·4319388	·0001596934
6263	.....	39225169	245667233447	79·1391180	18·4329199	·0001596679
6264	$2^3.3^2.29$	39237696	245784927744	79·1454357	18·4339010	·0001596424
6265	5.7.179	39250225	245902659625	79·1517530	18·4348819	·0001596169
6266	2.13.241	39262756	246020429096	79·1580097	18·4358627	·0001595914
6267	3.2089	39275289	246138236163	79·1643859	18·4368433	·0001595660
6268	$2^2.1567$	39287824	246256080832	79·1707016	18·4378239	·0001595405
6269	.....	39300361	246573963109	79·1770168	18·4388044	·0001595151
6270	2.3.5.11.19	39312900	246491883000	79·1833315	18·4397848	·0001594896
6271	.....	39325441	246609840511	79·1896457	18·4407650	·0001594642
6272	27.7^2	39337984	246727835648	79·1959595	18·4417452	·0001594388
6273	$3^2.17.41$	39350529	246845866417	79·2022727	18·4427253	·0001594134
6274	2.3137	39363076	246963938824	79·2085854	18·4437052	·0001593880
6275	$5^2.251$	39375625	247082046875	79·2148976	18·4446851	·0001593626
6276	$2^2.3.523$	39388176	247200192576	79·2212093	18·4456648	·0001595372
6277	.....	39400729	247318375933	79·2275205	18·4466444	·0001593118
6278	2.43.73	39413284	247436596952	79·2338311	18·4476240	·0001592864
6279	3.7.13.23	39425841	247554855639	79·2401413	18·4486034	·0001592610
6280	$2^3.5.157$	39438400	247673152000	79·2464510	18·4495827	·0001592357
6281	11.571	39450961	247791486041	79·2527602	18·4505619	·0001592103
6282	$2.3^2.349$	39463524	247909857768	79·2590689	18·4515411	·0001591850
6283	61.103	39476089	248028267187	79·2653771	18·4525201	·0001591596
6284	$2^2.1571$	39488656	248146714304	79·2716847	18·4534990	·0001591343
6285	3.5.419	39501225	248265199125	79·2779919	18·4544768	·0001591090
6286	2.7.449	39513796	248383721656	79·2842986	18·4554565	·0001590837
6287	.....	39526369	248502281903	79·2906047	18·4564350	·0001590584
6288	$2^4.3.131$	39538944	248620879872	79·2969104	18·4574136	·0001590331
6289	19.331	39551521	248739515569	79·3032156	18·4583920	·0001590078
6290	2.5.17.37	39564100	248858189000	79·3095202	18·4593703	·0001589825
6291	$3^3.233$	39576681	248976900171	79·3158244	18·4603485	·0001589572
6292	$2^2.11^2.13$	39589264	249095649088	79·3221281	18·4613266	·0001589320
6293	7.29.31	39601849	249214435757	79·3284312	18·4623046	·0001589067
6294	2.3.1049	39614436	249333260184	79·3347339	18·4632824	·0001588814
6295	5.1259	39627025	249452122375	79·3410360	18·4642602	·0001588562
6296	$2^3.787$	39639616	249571022336	79·3473377	18·4652379	·0001588310
6297	3.2099	39652209	249689960073	79·3536389	18·4662155	·0001588058
6298	2.47.67	39664804	249808935592	79·3599395	18·4671929	·0001587806
6299	.....	39677401	249927948899	79·3662397	18·4681703	·0001587554

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6300	$2^2.3^2.5^2.7$	39690000	250047000000	79·3725393	18·4691475	·0001587302
6301	.....	39702601	250166088901	79·3788385	18·4701247	·0001587050
6302	2.23.137	39715204	250285215608	79·3851372	18·4711017	·0001586798
6303	3.11.191	39727809	250404380127	79·3914353	18·4720787	·0001586546
6304	$2^5.197$	39740416	250523582464	79·3977330	18·4730555	·0001586294
6305	5.13.97	39753025	250642822625	79·4040301	18·4740322	·0001586043
6306	2.3.1051	39765636	250762100616	79·4103268	18·4750088	·0001585791
6307	7.17.53	39778249	250881416443	79·4166230	18·4759854	·0001585540
6308	$2^2.19.83$	39790864	251000770112	79·4229186	18·4769618	·0001585289
6309	$3^2.701$	39803481	251120161629	79·4292138	18·4779381	·0001585037
6310	2.5.631	39816100	251239591000	79·4355084	18·4789144	·0001584786
6311	.....	39828721	251359058231	79·4418026	18·4798905	·0001584535
6312	$2^3.3.263$	39841344	251478563328	79·4480963	18·4808665	·0001584284
6313	59.107	39853969	251598106297	79·4543894	18·4818424	·0001584033
6314	2.7.11.41	39866596	251717687144	79·4606821	18·4828182	·0001583782
6315	3.5.421	39879225	251837305875	79·4669743	18·4837939	·0001583531
6316	$2^2.1579$	39891856	251956962496	79·4732660	18·4847695	·0001583281
6317	.....	39904489	252076657013	79·4795571	18·4857450	·0001583030
6318	$2.3^2.13$	39917124	252196389432	79·4858478	18·4867204	·0001582779
6319	71.89	39929761	252316159759	79·4921380	18·4876957	·0001582529
6320	$2^4.5.79$	39942400	252435968000	79·4984277	18·4886709	·0001582278
6321	$3.7^2.43$	39955041	252555814161	79·5047169	18·4896460	·0001582028
6322	2.29.109	39967684	252675698248	79·5110056	18·4906210	·0001581778
6323	.....	39980329	252795620267	79·5172937	18·4915959	·0001581528
6324	$2^2.3.17.31$	39992976	252915580224	79·5235814	18·4925707	·0001581278
6325	$5^2.11.23$	40005625	253035578125	79·5298686	18·4935453	·0001581028
6326	2.3163	40018276	253155613976	79·5361553	18·4945199	·0001580778
6327	$3^2.19.37$	40030929	253275687783	79·5424415	18·4954944	·0001580528
6328	$2^3.7.113$	40043584	253395799552	79·5487272	18·4964688	·0001580278
6329	.....	40056241	253515949289	79·5550124	18·4974430	·0001580028
6330	2.3.5.211	40068900	253636137000	79·5612972	18·4984172	·0001579779
6331	13.487	40081561	253756362691	79·5675814	18·4993912	·0001579529
6332	$2^2.1583$	40094224	253876626368	79·5738651	18·5003652	·0001579280
6333	3.2111	40106889	253996928037	79·5801483	18·5013390	·0001579030
6334	2.3167	40119556	254117267704	79·5864310	18·5023128	·0001578781
6335	5.7.181	40132225	254237645375	79·5927133	18·5032864	·0001578532
6336	$2^6.3^2.11$	40144896	254358061056	79·5989950	18·5042600	·0001578283
6337	.....	40157569	254478514753	79·6052762	18·5052335	·0001578034
6338	2.3169	40170244	254599006472	79·6115570	18·5062068	·0001577785
6339	3.2113	40182921	254719536219	79·6178372	18·5071800	·0001577536
6340	$2^2.5.317$	40195600	254840104000	79·6241170	18·5081532	·0001577287
6341	17.373	40208281	254960709821	79·6303963	18·5091262	·0001577038
6342	2.3.7.151	40220964	255081353688	79·6366750	18·5100992	·0001576790
6343	.....	40233649	255202035607	79·6429533	18·5110720	·0001576541
6344	$2^3.13.61$	40246336	255322755584	79·6492310	18·5120447	·0001576293
6345	$3^2.5.47$	40259025	255443513625	79·6555083	18·5130174	·0001576044
6346	2.19.167	40271716	255564309736	79·6617851	18·5139899	·0001575796
6347	11.577	40284409	255685143923	79·6680614	18·5149623	·0001575548
6348	$2^2.3.23^2$	40297104	255806016192	79·6743372	18·5159346	·0001575299
6349	7.907	40309801	255926926549	79·6806125	18·5169068	·0001575051
6350	$2.5^2.127$	40322500	256047875000	79·6868874	18·5178790	·0001574803
6351	3.29.73	40335201	256168861551	79·6931617	18·5188510	·0001574555
6352	$2^4.397$	40347904	256289886208	79·6994355	18·5198229	·0001574307
6353	.....	40360609	256410948977	79·7057088	18·5207947	·0001574059
6354	$2.3^2.353$	40373316	256532049864	79·7119815	18·5217664	·0001573812
6355	5.31.41	40386025	256653188875	79·7182539	18·5227380	·0001571564
6356	$2^2.7.227$	40398736	256774366016	79·7245257	18·5237095	·0001573317
6357	3.13.163	40411449	256895581293	79·7307970	18·5246809	·0001573069
6358	2.11.17²	40424164	257016834712	79·7370679	18·5256522	·0001572822
6359	.....	40436881	257138126279	79·7433382	18·5266235	·0001572574

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6360	$2^3.3.5.53$	40449600	257259456000	79·7496081	18·5275946	·0001572327
6361	.....	40462321	257380823881	79·7558775	18·5298656	·0001572080
6362	2.3181	40475044	257502299928	79·7621464	18·5295365	·0001571833
6363	$3^3.7.101$	40487769	257623674147	79·7684148	18·5305073	·0001571586
6364	$2^2.37.43$	40500496	257745156544	79·7746827	18·5314779	·0001571339
6365	5.19.67	40513225	257866677125	79·7809501	18·5324485	·0001571092
6366	2.3.1061	40525956	257988235896	79·7872170	18·5334190	·0001570845
6367	.....	40538689	258109832863	79·7934834	18·5343894	·0001570598
6368	$2^5.199$	40551424	258231468032	79·7997494	18·5353597	·0001570352
6369	3.11.193	40564161	258353141409	79·8060148	18·5363299	·0001570105
6370	$2.5.7^2.13$	40576900	258474853000	79·8122797	18·5373000	·0001569859
6371	23.277	40589641	258596602811	79·8185442	18·5382699	·0001569612
6372	$2^2.3^3.59$	40602384	258718390848	79·8248082	18·5392398	·0001569366
6373	.....	40615129	258840217117	79·8310716	18·5402096	·0001569120
6374	2.3187	40627876	258962081624	79·8373346	18·5411793	·0001568874
6375	$3.5^3.17$	40640625	259083984375	79·8435971	18·5421489	·0001568627
6376	$2^3.797$	40653376	259205925376	79·8498591	18·5431183	·0001568381
6377	7.911	40666129	259327904633	79·8561206	18·5440877	·0001568135
6378	2.3.1063	40678884	259449922152	79·8623816	18·5450569	·0001567890
6379	.....	40691641	259571977939	79·8686422	18·5460261	·0001567645
6380	$2^2.5.11.29$	40704400	259694072000	79·8749022	18·5469952	·0001567398
6381	$3^2.709$	40717161	259816204341	79·8811617	18·5479641	·0001567152
6382	2.3191	40729924	259938374968	79·8874208	18·5489330	·0001566907
6383	13.491	40742689	260060583887	79·8936793	18·5499018	·0001566661
6384	$2^4.3.7.19$	40755456	260182831104	79·8999374	18·5508704	·0001566416
6385	5.1277	40768225	260305116625	79·9061950	18·5518390	·0001566171
6386	2.31.103	40780996	260427440456	79·9124521	18·5528075	·0001565925
6387	3.2129	40793769	260549802603	79·9187087	18·5537758	·0001565680
6388	$2^2.1597$	40806544	260672203072	79·9249648	18·5547441	·0001565435
6389	.....	40819321	260794641869	79·9312204	18·5557122	·0001565190
6390	$2.3^2.5.71$	40832100	260917119000	79·9374756	18·5566803	·0001564945
6391	7.11.83	40844881	261039634471	79·9437302	18·5576483	·0001564700
6392	$2^3.17.47$	40857664	261162188288	79·9499844	18·5586161	·0001564456
6393	3.2131	40870449	261284780457	79·9562380	18·5595839	·0001564211
6394	2.23.139	40883236	261407410984	79·9624912	18·5605515	·0001563966
6395	5.1279	40896025	261530079875	79·9687439	18·5615191	·0001563722
6396	$2^2.3.13.41$	40908816	261652787136	79·9749961	18·5624865	·0001563477
6397	.....	40921609	261775532773	79·9812478	18·5634539	·0001563233
6398	2.7.457	40934404	261898316792	79·9874990	18·5644211	·0001562988
6399	$3^4.79$	40947201	262021139199	79·9937498	18·5653883	·0001562744
6400	$2^8.5^2$	40960000	262144000000	80·0000000	18·5663553	·0001562500
6401	37.173	40972801	262266899201	80·0062498	18·5673223	·0001562256
6402	2.3.11.97	40985604	262389836808	80·0124990	18·5682891	·0001562012
6403	19.337	40998409	262512812827	80·0187478	18·5692559	·0001561768
6404	$2^2.1601$	41011216	262635827264	80·0249961	18·5702225	·0001561524
6405	3.5.7.61	41024025	262758880125	80·0312439	18·5711890	·0001561280
6406	2.3203	41036836	262881971416	80·0374912	18·5721555	·0001561037
6407	43.149	41049649	263005101143	80·0437380	18·5731218	·0001560793
6408	$2^3.3^2.89$	41062464	263128269312	80·0499844	18·5740881	·0001560549
6409	13.17.29	41075281	263251475929	80·0562303	18·5750542	·0001560306
6410	2.5.641	41088100	263374721000	80·0624756	18·5760203	·0001560062
6411	3.2137	41100921	263498004531	80·0687205	18·5769862	·0001559819
6412	$2^2.7.229$	41113744	263621326528	80·0749649	18·5779520	·0001559576
6413	$11^2.53$	41126569	263744686997	80·0812088	18·5789178	·0001559333
6414	2.3.1069	41139396	263868085944	80·0874522	18·5798834	·0001559089
6415	5.1283	41152225	263991523375	80·0936952	18·5808490	·0001558846
6416	$2^4.401$	41165056	264114999296	80·0999376	18·5818144	·0001558603
6417	$3^2.23.31$	41177889	264238513713	80·1061795	18·5827798	·0001558361
6418	2.3209	41190724	264362066632	80·1124210	18·5837450	·0001558118
6419	$7^2.131$	41203561	264485658059	80·1186620	18·5847101	·0001557877

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6420	$2^2.3.5.107$	41216400	264609288000	80·1249025	18·5856752	·0001557632
6421	.....	41229241	264732956461	80·1311426	18·5866401	.0001557390
6422	$2.13^2.19$	41242084	264856663448	80·1373821	18·5876049	·0001557147
6423	3.2141	41254929	264980408967	80·1436211	18·5885697	·0001556905
6424	$2^3.11.73$	41267776	265104193024	80·1498597	18·5895343	·0001556663
6425	$5^2.257$	41280625	265228015625	80·1560977	18·5904988	·0001556420
6426	$2.3^3.7.17$	41293476	265351876776	80·1623353	18·5914633	·0001556178
6427	.....	41306329	265475776483	80·1685724	18·5924276	·0001555936
6428	$2^2.1607$	41319184	265599714752	80·1748090	18·5933918	·0001555694
6429	3.2143	41332041	265723691589	80·1810451	18·5943560	·0001555452
6430	2.5.643	41344900	265847707000	80·1872807	18·5953200	·0001555210
6431	59.109	41357761	265971760991	80·1935159	18·5962840	·0001554968
6432	$2^5.3.67$	41370624	266095853568	80·1997506	18·5972478	·0001554726
6433	7.919	41383489	266219984737	80·2059848	18·5982115	·0001554485
6434	2.3217	41396356	266344154504	80·2122185	18·5991752	·0001554243
6435	$3^2.5.11.13$	41409225	266468362875	80·2184517	18·6001387	·0001554002
6436	$2^2.1609$	41422096	266592609856	80·2246845	18·6011022	·0001553760
6437	41.157	41434969	266716895453	80·2309167	18·6020655	·0001553519
6438	2.3.29.37	41447844	266841219672	80·2371485	18·6030287	·0001553277
6439	47.137	41460721	266965582519	80·2433797	18·6039919	·0001553036
6440	$2^3.5.7.23$	41473600	267089984000	80·2496105	18·6049549	·0001552795
6441	3.19.113	41486481	267214424121	80·2558409	18·6059179	·0001552554
6442	2.3221	41499364	267338902888	80·2620707	18·6068807	·0001552313
6443	17.379	41512249	267463420307	80·2683001	18·6078435	·0001552072
6444	$2^2.3^2.179$	41525136	267587976384	80·2745290	18·6088061	·0001551831
6445	5.1289	41538025	267712571125	80·2807573	18·6097687	·0001551590
6446	2.11.293	41550916	267837204536	80·2869852	18·6107311	·0001551350
6447	3.7.307	41563809	267961876623	80·2932126	18·6116935	·0001551109
6448	$2^4.13.31$	41576704	268086587392	80·2994396	18·6126557	·0001550868
6449	.....	41589601	268211336849	80·3056660	18·6136178	·0001550628
6450	$2.3.5^2.43$	41602500	268336125000	80·3118920	18·6145799	·0001550388
6451	.....	41615401	268460951851	80·3181175	18·6155418	·0001550147
6452	$2^2.1613$	41628304	268585817408	80·3243425	18·6165036	·0001549907
6453	$3^3.239$	41641209	268710721677	80·3305670	18·6174654	·0001549667
6454	2.7.461	41654116	268835664664	80·3367911	18·6184270	·0001549427
6455	5.1291	41667025	268960646375	80·3430146	18·6193886	·0001549187
6456	$2^3.3.269$	41679936	269085666816	80.3492377	18·6203500	·0001548947
6457	11.587	41692849	269210725993	80·3554603	18·6213114	·0001548707
6458	2.3229	41705764	269335823912	80·3616824	18·6222726	·0001548467
6459	3.2153	41718681	269460960579	80·3679040	18·6232338	·0001548227
6460	$2^2.5.17.19$	41731600	269586136000	80·3741252	18·6241948	·0001547988
6461	7.13,71	41744521	269711350181	80·3803458	18·6251558	·0001547748
6462	$2.3^4.359$	41757444	269836603128	80·3865660	18·6261166	·0001547509
6463	23.281	41770369	269961894847	80·3927857	18·6270774	·0001547269
6464	$2^6.101$	41783296	270087225344	80·3990050	18·6280380	·0001547030
6465	3.5.431	41796225	270212594625	80·4052237	18·6289986	·0001546790
6466	2.53.61	41809156	270338002696	80·4114420	18·6299590	·0001546551
6467	29.223	41822089	270463449563	80·4176597	18·6309194	·0001546312
6468	$2^2.3.7^2.11$	41835024	270588935232	80·4238770	18·6318797	·0001546073
6469	.....	41847961	270714459709	80·4300939	18·6328398	·0001545834
6470	2.5.647	41860900	270840023000	80·4363102	18·6337999	·0001545595
6471	$3^2.719$	41873841	270965625111	80·4425261	18·6347598	·0001545356
6472	$2^3.809$	41886784	271091266048	80·4487414	18·6357197	·0001545117
6473	.....	41899729	271216945817	80·4549563	18·6366795	·0001544879
6474	2.3.13.83	41912676	271342664424	80·4611708	18·6376391	·0001544640
6475	$5^2.7.37$	41925625	271468421875	80·4673847	18·6385987	·0001544402
6476	$2^2.1619$	41938576	271594218176	80·4735982	18·6395582	·0001544163
6477	3.17.127	41951529	271720053333	80·4798111	18·6405175	·0001543925
6478	2.41.79	41964484	271845927352	80·4860236	18·6414768	·0001543686
6479	11.19.31	41977441	271971840239	80·4922357	18·6424359	·0001543448

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6480	$2^4.3^4.5$	41990400	272097792000	80·4984472	18·6433950	·0001543210
6481	.....	42003361	272223782641	80·5046583	18·6443540	·0001542972
6482	2.7.463	42016324	272349812168	80·5108688	18·6453129	·0001542734
6483	3.2161	42029289	272475880587	80·5170789	18·6462716	·0001542496
6484	$2^2.1621$	42042256	272601987904	80·5232886	18·6472303	·0001542258
6485	5.1297	42055225	272728134125	80·5294977	18·6481889	·0001542020
6486	2.3.23.47	42068196	272854319256	80·5357064	18·6491474	·0001541782
6487	13.499	42081169	272980543303	80·5419146	18·6501058	·0001541545
6488	$2^3.811$	42094144	273106806272	80·5481223	18·6510640	·0001541307
6489	$3^2.7$ 103	42107121	273233108169	80·5543295	18·6520222	·0001541070
6490	2.5.11.59	42120100	273359449000	80·5605363	18·6529803	·0001540832
6491	.....	42133081	273485828771	80·5667425	18·6539383	·0001540595
6492	$2^2.3.541$	42146064	273612247488	80·5729483	18·6548962	·0001540357
6493	43.151	42159049	273738705157	80·5791537	18·6558540	·0001540120
6494	2.17.191	42172036	273865201784	80·5853585	18·6568117	·0001539883
6495	3.5.433	42185025	273991737375	80·5915629	18·6577693	·0001539646
6496	$2^5.7.29$	42198016	274118311936	80·5977667	18·6587268	·0001539409
6497	73.89	42211009	274244925473	80·6039701	18·6596842	·0001539172
6498	$2.3^3.19^2$	42224004	274371577992	80·6101731	18·6606415	·0001538935
6499	67.97	42237001	274498269499	80·6163755	18·6615987	·0001538698
6500	$2^2.5^3.13$	42250000	274625000000	80·6225775	18·6625558	·0001538462
6501	3.11.197	42263001	274751769501	80·6287790	18·6635128	·0001538225
6502	2.3251	42276004	274878578008	80·6349800	18·6644697	·0001537988
6503	7.929	42289009	275005425527	80·6411806	18·6654265	·0001537752
6504	$2^3.3.271$	42302016	275132312064	80·6473806	18·6663832	·0001537515
6505	5.1301	42315025	275259237625	80·6535802	18·6673398	·0001537279
6506	2.3253	42328036	275386202216	80·6597793	18·6682964	·0001537043
6507	$3^3.241$	42341049	275513205843	80·6659780	18·6692528	·0001536807
6508	$2^2.1627$	42354064	275640248512	80·6721761	18·6702091	·0001536570
6509	23.283	42367081	275767330229	80·6783738	18·6711653	·0001536334
6510	2.3.5.7.31	42380100	275894451000	80·6845711	18·6721214	·0001536098
6511	17.383	42393121	276021610831	80·6907678	18·6730775	·0001535862
6512	$2^4.11.37$	42406144	276148809728	80·6969641	18·6740334	·0001535627
6513	3.13.167	42419169	276276047697	80·7031598	18·6749892	·0001535391
6514	2.3257	42432196	276403324744	80·7093551	18·6759449	·0001535155
6515	5.1303	42445225	276530640875	80·7155500	18·6769006	·0001534919
6516	$2^2.3^2.181$	42458256	276657996096	80·7217443	18·6778561	·0001534684
6517	$7^2.133$	42471289	276785390413	80·7279382	18·6788116	·0001534448
6518	2.3259	42484324	276912823832	80·7341316	18·6797669	·0001534213
6519	3.41.53	42497361	277040296359	80·7403245	18·6807221	·0001533978
6520	$2^3.5.163$	42510400	277167808000	80·7465170	18·6816773	·0001533742
6521	.....	42523441	277295358761	80·7527090	18·6826323	·0001533507
6522	2.3.1087	42536484	277422948648	80·7589005	18·6835873	·0001533272
6523	11.593	42549529	277550577667	80·7650915	18·6845421	·0001533037
6524	$2^2.7.233$	42562576	277678245824	80·7712820	18·6854969	·0001532802
6525	$3^2.5^2.29$	42575625	277805953125	80·7774721	18·6864516	·0001532567
6526	2 13.251	42588676	277933699576	80·7836617	18·6874061	·0001532332
6527	61.107	42601729	278061485183	80·7898508	18·6883606	·0001532097
6528	$2^7.3.17$	42614784	278189309952	80·7960395	18·6893149	·0001531863
6529	.....	42627841	278317173889	80·8022276	18·6902692	·0001531628
6530	2.5 653	42640900	278445077000	80·8084154	18·6912234	·0001531394
6531	3.7.311	42653961	278573019291	80·8146026	18·6921775	·0001531159
6532	$2^2.23.71$	42667024	278701000768	80·8207894	18·6931314	·0001530925
6533	47.139	42680089	278829021437	80·8269757	18·6940853	·0001530690
6534	$2.3^2.11^2$	42693156	278957081304	80·8331615	18·6950391	·0001530456
6535	5.1307	42706225	279085180375	80·8393468	18·6959927	·0001530222
6536	$2^3.19.43$	42719296	279213318656	80·8455317	18·6969463	·0001529988
6537	3.2179	42732369	279341496153	80·8517161	18·6978998	·0001529754
6538	2.7.467	42745444	279469712872	80·8579000	18·6988532	·0001529520
6539	13.503	42758521	279597968819	80·8640835	18·6998065	·0001529286

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6540	$2^2.3.5.109$	42771600	279726264000	80·8702664	18·7007597	·0001529052
6541	31.211	42784681	279854598421	80·8764490	18·7017128	·0001528818
6542	2.3271	42797764	279982972088	80·8826310	18·7026658	·0001528585
6543	$3^2.727$	42810849	280111385007	80·8888126	18·7036187	·0001528351
6544	$2^4.409$	42823936	280239837184	80·8949937	18·7045715	·0001528117
6545	5.7.11.17	42837025	280368328625	80·9011743	18·7055242	·0001527884
6546	2.3.1091	42850116	280496859336	80·9073544	18·7064768	·0001527650
6547	.....	42863209	280625429323	80·9135341	18·7074293	·0001527417
6548	$2^2.1637$	42876304	280754038592	80·9197133	18·7083817	·0001527184
6549	3.37.59	42889401	280882687149	80·9258920	18·7093340	·0001526951
6550	$2.5^2.131$	42902500	281011375000	80·9320703	18·7102863	·0001526718
6551	.....	42915601	281140102151	80·9382481	18·7112384	·0001526484
6552	$2^3.3^2.7.13$	42928704	281268868608	80·9444254	18·7121905	·0001526252
6553	.....	42941809	281397674377	80·9506022	18·7131424	·0001526019
6554	2.29.113	42954916	281526519464	80·9567786	18·7140942	·0001525786
6555	3.5.19.23	42968025	281655403875	80·9629545	18·7150460	·0001525553
6556	$2^2.11.149$	42981136	281784327616	80·9691299	18·7159976	·0001525320
6557	79.83	42994249	281913290693	80·9753049	18·7169492	·0001525088
6558	2.3.1093	43007364	282042293112	80·9814794	18·7179006	·0001524855
6559	7.937	43020481	282171334879	80·9876534	18·7188520	·0001524623
6560	$2^5.5.41$	43033600	282300416000	80·9938269	18·7198032	·0001524390
6561	3^8	43046721	282429536481	81·0000000	18·7207544	·0001524158
6562	2.17.193	43059844	282558696328	81·0061726	18·7217055	·0001523926
6563	.....	43072969	282687895547	81·0123447	18·7226564	·0001523693
6564	$2^2.3.547$	43086096	282817134144	81·0185164	18·7236073	·0001523461
6565	5.13.101	43099225	282946412125	81·0246876	18·7245581	·0001523229
6566	$2.7^2.67$	43112356	283075729496	81·0308583	18·7255088	·0001522997
6567	3.11.199	43125489	283205086263	81·0370286	18·7264594	·0001522765
6568	$2^3.821$	43138624	283334482432	81·0431983	18·7274098	·0001522533
6569	.....	43151761	283463918009	81·0493676	18·7283602	·0001522302
6570	$2.3^2.5.73$	43164900	283593393000	81·0555365	18·7293105	·0001522070
6571	.....	43178041	283722907411	81·0617049	18·7302607	·0001521838
6572	$2^2.31.53$	43191184	283852461248	81·0678728	18·7312108	·0001521607
6573	3.7.313	43204329	283982054517	81·0740402	18·7321608	·0001521375
6574	2.19.173	43217476	284111687224	81·0802072	18·7331107	·0001521144
6575	$5^2.263$	43230625	284241359375	81·0863737	18·7340605	·0001520913
6576	$2^4.3.137$	43243776	284371070976	81·0925397	18·7350102	·0001520681
6577	.....	43256929	284500822033	81·0987053	18·7359598	·0001520450
6578	2.11.13.23	43270084	284630612552	81·1048704	18·7369094	·0001520219
6579	$3^2.17.43$	43283241	284760442539	81·1110350	18·7378588	·0001519988
6580	$2^2.5.7.47$	43296400	284890312000	81·1171992	18·7388081	·0001519757
6581	.....	43309561	285020220941	81·1233629	18·7397574	·0001519526
6582	2.3.1097	43322724	285150169368	81·1295261	18·7407065	·0001519295
6583	29.227	43335889	285280157287	81·1356888	18·7416556	·0001519064
6584	$2^3.823$	43349056	285410184704	81·1418511	18·7426045	·0001518834
6585	3.5.439	43362225	285540251625	81·1480129	18·7435533	·0001518603
6586	2.37.89	43375396	285670358056	81·1541743	18·7445021	·0001518372
6587	7.941	43388569	285800504003	81·1603351	18·7454507	·0001518142
6588	$2^2.3^3.61$	43401744	285930689472	81·1664956	18·7463993	·0001517911
6589	11.599	43414921	286060914469	81·1726555	18·7473477	·0001517681
6590	2.5.659	43428100	286191179000	81·1788150	18·7482961	·0001517451
6591	3.13^3	43441281	286321483071	81·1849740	18·7492444	·0001517220
6592	$2^6.103$	43454464	286451826688	81·1911326	18·7501926	·0001516990
6593	19.347	43467649	286582209857	81·1972906	18·7511407	·0001516760
6594	2.3.7.157	43480836	286712632584	81·2034482	18·7520886	·0001516530
6595	5.1319	43494025	286843094875	81·2096054	18·7530365	·0001516300
6596	$2^2.17.97$	43507216	286973596736	81·2157620	18·7539843	·0001516070
6597	$3^2.733$	43520409	287104138173	81·2219182	18·7549320	·0001515841
6598	2.3299	43533604	287234719192	81·2280740	18·7558796	·0001515611
6599	.....	43546801	287365339799	81·2342293	18·7568271	·0001515381

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6600	$2^3.3.5^2.11$	43560000	287496000000	81·2403841	18·7577745	·0001515145
6601	7.23.41	43573201	287626699801	81·2465384	18·7587219	·0001514922
6602	2.3301	43586404	287757439208	81·2526923	18·7596691	·0001514693
6603	3.31.71	43599609	287888218227	81·2588457	18·7606162	·0001514463
6604	$2^2.13.127$	43612816	288019036864	81·2649986	18·7615632	·0001514234
6605	5.1321	43626025	288149895125	81·2711511	18·7625102	·0001514005
6606	$2.3^2.367$	43639236	288280793016	81·2773031	18·7634570	·0001513775
6607	.....	43652449	288411730543	81·2834547	18·7644037	·0001513546
6608	$2^4.7.59$	43665664	288542707712	81·2896058	18·7653503	·0001513317
6609	3.2203	43678881	288673724529	81·2957564	18·7662969	·0001513088
6610	2.5.661	43692100	288804781000	81·3019066	18·7672433	·0001512859
6611	11.601	43705321	288935877131	81·3080563	18·7681897	·0001512630
6612	$2^2.3.19.29$	43718544	289067012928	81·3142055	18·7691360	·0001512402
6613	17.389	43731769	289198188397	81·3203542	18·7700821	·0001512173
6614	2.3307	43744996	289329403544	81·3265025	18·7710282	·0001511944
6615	$3^3.5.7^2$	43758225	289460658375	81·3326503	18·7719742	·0001511716
6616	$2^3.827$	43771456	289591952896	81·3387976	18·7729201	·0001511487
6617	13.509	43784689	289723287113	81·3449445	18·7738659	·0001511259
6618	2.3.1103	43797924	289854661032	81·3510909	18·7748116	·0001511031
6619	.....	43811161	289986074659	81·3572369	18·7757572	·0001510802
6620	$2^2.5.331$	43824400	290117528000	81·3633824	18·7767027	·0001510574
6621	3.2207	43837641	290249021061	81·3695274	18·7776481	·0001510346
6622	2.7.11.43	43850884	290380553848	81·3756720	18·7785934	·0001510118
6623	37.179	43864129	290512126367	81·3818161	18·7795386	·0001509890
6624	$2^6.3^2.23$	43877376	290643738624	81·3879598	18·7804838	·0001509662
6625	$5^3.53$	43890625	290775390625	81·3941030	18·7814288	·0001509434
6626	2.3313	43903876	290907082376	81·4002457	18·7823737	·0001509206
6627	3.47^2	43917129	291038813883	81·4063879	18·7833185	·0001508978
6628	$2^2.1657$	43930384	291170585152	81·4125297	18·7842633	·0001508751
6629	7.947	43943641	291302396189	81·4186710	18·7852079	·0001508523
6630	2.3.5.13.17	43956900	291434247000	81·4248119	18·7861524	·0001508296
6631	19.349	43970161	291566137591	81·4309523	18·7870969	·0001508068
6632	$2^3.829$	43983424	291698067968	81·4370923	18·7880413	·0001507841
6633	$3^3.11.67$	43996689	291830038137	81·4432318	18·7889856	·0001507613
6634	2.31.107	44009956	291962048104	81·4493708	18·7899297	·0001507386
6635	5.1327	44023225	292094097875	81·4555093	18·7908738	·0001507159
6636	$2^2.3.7.79$	44036496	292226187456	81·4616474	18·7918178	·0001506932
6637	.....	44049769	292358316853	81·4677850	18·7927617	·0001506705
6638	2.3319	44063044	292490486072	81·4739222	18·7937055	·0001506478
6639	3.2213	44076321	292622695119	81·4800589	18·7946492	·0001506251
6640	$2^4.5.83$	44089600	292754944000	81·4861951	18·7955928	·0001506024
6641	29.229	44102881	292887232721	81·4923309	18·7965363	·0001505797
6642	2.3.41	44116164	293019561288	81·4984662	18·7974797	·0001505571
6643	7.13.73	44129449	293151929707	81·5046011	18·7984230	·0001505344
6644	$2^2.11.151$	44142736	293284337984	81·5107355	18·7993662	·0001505117
6645	3.5.443	44156025	293416786125	81·5168694	18·8003093	·0001504891
6646	2.3323	44169316	293549274136	81·5230029	18·8012524	·0001504664
6647	17.23	44182609	293681802023	81·5291359	18·8021953	·0001504438
6648	$2^3.3.277$	44195904	293814369792	81·5352684	18·8031382	·0001504212
6649	61.109	44209201	293946977449	81·5414005	18·8040809	·0001503986
6650	$2.5^2.7.19$	44222500	294079625000	81·5475322	18·8050236	·0001503759
6651	$3^2.739$	44235801	294212312451	81·5536633	18·8059661	·0001503533
6652	$2^2.1663$	44249104	294345039808	81·5597940	18·8069086	·0001503307
6653	.....	44262409	294477807077	81·5659243	18·8078510	·0001503081
6654	2.3.1109	44275716	294610614264	81·5720541	18·8087932	·0001502855
6655	5.113	44289025	294743461375	81·5781834	18·8097354	·0001502630
6656	$2^9.13$	44302336	294876348416	81·5843122	18·8106775	·0001502404
6657	3.7.317	44315649	295009275393	81·5904406	18·8116195	·0001502178
6658	2.3329	44328964	295142242312	81·5965686	18·8125614	·0001501953
6659	.....	44342281	295275249179	81·6026961	18·8135032	·0001501727

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6660	$2^2.3^2.537$	44355600	295408296000	81·6088231	18·8144449	·0001501502
6661	.....	44368921	295541382781	81·6149496	18·8153865	·0001501276
6662	2.3331	44382244	295674509528	81·6210757	18·8163281	·0001501051
6663	3.2221	44395569	295807676247	81 6272014	18·8172695	·0001500825
6664	$2^3.7^2.17$	44408896	295940882944	81·6333265	18·8182108	·0001500600
6665	5.31.43	44422225	296074129625	81·6394513	18·8191521	·0001500375
6666	2.3.11.101	44435556	296207416296	81·6455755	18·8200932	·0001500150
6667	59.113	44448889	296340742963	81·6516993	18·8210343	·0001499925
6668	$2^2.1667$	44462224	296474109632	81·6578227	18·8219752	·0001499700
6669	$3^2.13.19$	44475561	296607516309	81·6639455	18·8229161	·0001499475
6670	2.5.23.29	44488900	296740963000	81·6700680	18·8238568	·0001499250
6671	7.953	44502241	296874449711	81·6761899	18·8247975	·0001499026
6672	$2^4.3.139$	44515584	297007976448	81·6823114	18·8257381	·0001498801
6673	.....	44528929	297141543217	81·6884325	18·8266786	·0001498576
6674	2.47.71	44542276	297275150024	81·6945531	18 8276190	·0001498352
6675	$3.5^2.89$	44555625	297408796875	81·7006732	18·8285593	·0001498127
6676	$2^2.1669$	44568976	297542483776	81·7067929	18·8294995	·0001497903
6677	11.607	44582329	297676210733	81·7129121	18·8304396	·0001497679
6678	$2.3^2.7.53$	44595684	297809977752	81·7190308	18·8313796	·0001497454
6679	.....	44609041	297943784839	81·7251491	18·8323195	·0001497230
6680	$2^3.5.167$	44622400	298077632000	81·7312670	18·8332593	·0001497006
6681	3.17.131	44635761	298211519241	81·7373844	18·8341991	·0001496782
6682	2.13.257	44649124	298345446568	81·7435013	18·8351388	·0001496558
6683	41.163	44662489	298479413987	81·7496178	18·8360783	·0001496334
6684	$2^2.3.557$	44675856	298613421504	81·7557338	18·8370178	·0001496110
6685	5.7.191	44689225	298747469125	81·7618493	18·8379572	·0001495886
6686	2.3343	44702596	298881556856	81·7679644	18·8388964	·0001495663
6687	$3^2.743$	44715969	299015684703	81·7740790	18·8398356	·0001495439
6688	$2^4.11.19$	44729344	299149852672	81·7801932	18·8407747	·0001495215
6689	.....	44742721	299284060769	81·7863069	18·8417137	·0001494992
6690	2.3.5.223	44756100	299418309000	81·7924202	18·8426525	·0001494768
6691	.....	44769481	299552597371	81·7985330	18·8435913	·0001494545
6692	$2^2.7.239$	44782864	299686925888	81·8046454	18·8445300	·0001494322
6693	3.23 97	44796249	299821294557	81·8107573	18·8454687	·0001494098
6694	2.3347	44809636	299955703384	81·8168687	18·8464072	·0001493875
6695	5.13.103	44823025	300090152375	81·8229797	18·8473456	·0001493652
6696	$2^3.3^2.31$	44836416	300224641536	81·8290902	18·8482839	·0001493429
6697	37.181	44849809	300359170873	81·8352003	18·8492222	·0001493206
6698	2.17.197	44863204	300493740392	81·8413099	18·8501603	·0001492983
6699	3.7.11.29	44876601	300628350099	81·8474190	18·8510984	·0001492760
6700	$2^2.5^2.67$	44890000	300763000000	81·8535277	18·8520363	·0001492537
6701	.....	44903401	300897690101	81·8596360	18·8529742	·0001492315
6702	2.3.1117	44916804	301032420408	81·8657438	18·8539120	·0001492092
6703	.....	44930209	301167190927	81·8718511	18·8548497	·0001491869
6704	$2^4.419$	44943616	301302001664	81·8779580	18·8557872	·0001491647
6705	$3^2.5.149$	44957025	301436852625	81·8840644	18·8567247	·0001491424
6706	2.7.479	44970436	301571743816	81·8901704	18·8576621	·0001491202
6707	19.353	44983849	301706675243	81·8962759	18·8585994	·0001490980
6708	$2^2.3.13.43$	44997264	301841646912	81·9023810	18·8595366	·0001490757
6709	.....	45010681	301976658829	81·9084856	18·8604738	·0001490535
6710	2.5.11.61	45024100	302111711000	81·9145897	18·8614108	·0001490313
6711	3.2237	45037521	302246803431	81·9206934	18·8623477	·0001490091
6712	$2^3.839$	45050944	302381936128	81·9267966	18·8632846	·0001489869
6713	7².137	45064369	302517109097	81·9328994	18·8642213	·0001489647
6714	$2.3^2.373$	45077796	302652322344	81·9390017	18·8651580	·0001489425
6715	5.17.79	45091225	302787575875	81·9451036	18·8660945	·0001489203
6716	$2^2.23.73$	45104656	302922869696	81·9512050	18·8670310	·0001488982
6717	3.2239	45118089	303058203813	81·9573059	18·8679674	·0001488760
6718	2.3359	45131524	303193578232	81·9634064	18·8689036	·0001488538
6719	.....	45144961	303328992959	81·9695065	18·8698398	·0001488317

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6720	$2^6.3.5.7$	45158400	303464448000	81·9756061	18·8707759	·0001488095
6721	11.13.47	45171841	303599943361	81·9817053	18·8717120	·0001487874
6722	2.3361	45185284	303735479048	81·9878040	18·8726479	·0001487652
6723	$3^4.83$	45198729	303871055067	81·9939022	18·8735837	·0001487431
6724	$2^2.41^2$	45212176	304006671424	82·0000000	18·8745194	·0001487210
6725	$5^2.269$	45225625	304142328125	82·0060973	18·8754550	·0001486989
6726	2.3.19.59	45239076	304278025176	82·0121942	18·8763906	·0001486768
6727	7.31^2	45252529	304413762583	82·0182906	18·8773260	·0001486547
6728	$2^3.29^2$	45265984	304549540352	82·0243866	18·8782614	·0001486326
6729	3.2243	45279441	304685358489	82·0304821	18·8791966	·0001486105
6730	2.5.673	45292900	304821217000	82·0365772	18·8801318	·0001485884
6731	53.127	45306661	304957115891	82·0426718	18·8810669	·0001485663
6732	$2^2.3^2.11.17$	45319824	305093055168	82·0487660	18·8820019	·0001485443
6733	.....	45333289	305229034837	82·0548597	18·8829368	·0001485222
6734	2.7.13.37	45346756	305365054904	82·0609529	18·8838716	·0001485001
6735	3.5.449	45360225	305501115375	82·0670457	18·8848063	·0001484781
6736	$2^4.421$	45373696	305637216256	82·0731381	18·8857409	·0001484561
6737	.....	45387169	305773357553	82·0792300	18·8866754	·0001484340
6738	2.3.1123	45400644	305909539272	82·0853214	18·8876098	·0001484120
6739	23.293	45414121	306045761419	82·0914124	18·8885442	·0001483900
6740	$2^2.5.337$	45427600	306182024000	82·0975030	18·8894784	·0001483680
6741	$3^2.7.107$	45441081	306318327021	82·1035931	18·8904126	·0001483459
6742	2.3371	45454564	306454670488	82·1096827	18·8913466	·0001483239
6743	11.613	45468049	306591054407	82·1157719	18·8922806	·0001483019
6744	$2^3.3.281$	45481536	306727478784	82·1218607	18·8932145	·0001482800
6745	5.19.71	45495025	306863943625	82·1279490	18·8941483	·0001482580
6746	2.3373	45508516	307000448936	82·1340368	18·8950819	·0001482360
6747	3.13.173	45522009	307136994723	82·1401242	18·8960155	·0001482140
6748	$2^2.7.241$	45535504	307273580992	82·1462111	18·8969490	·0001481921
6749	17.397	45549001	307410207749	82·1522976	18·8978825	·0001481701
6750	$2.3^3.5^3$	45562500	307546875000	82·1583836	18·8988158	·0001481481
6751	43.157	45576001	307683582751	82·1644692	18·8997490	·0001481262
6752	$2^5.211$	45589504	307820331008	82·1705543	18·9006821	·0001481043
6753	3.2251	45603009	307957119777	82·1766390	18·9016151	·0001480823
6754	2.11.307	45616516	308093949064	82·1827232	18·9025481	·0001480604
6755	5.7.193	45630025	308230818875	82·1888070	18·9034810	·0001480385
6756	$2^2.3.563$	45643536	308367729216	82·1948904	18·9044137	·0001480166
6757	29.233	45657049	308504680093	82·2009732	18·9053464	·0001479947
6758	2.31.109	45670564	308641671512	82·2070557	18·9062790	·0001479728
6759	$3^2.751$	45684081	308778703479	82·2131376	18·9072115	·0001479509
6760	$2^3.5.13^2$	45697600	308915776000	82·2192192	18·9081439	·0001479290
6761	.....	45711121	309052889081	82·2253002	18·9090762	·0001479071
6762	$2.3^4.23$	45724644	309190042728	82·2313809	18·9100084	·0001478852
6763	.....	45738169	309327236947	82·2374611	18·9109406	·0001478634
6764	$2^2.19.89$	45751696	309464471744	82·2435408	18·9118726	·0001478415
6765	3.5.11.41	45765225	309601747125	82·2496201	18·9128045	·0001478197
6766	2.17.199	45778756	309739063096	82·2556989	18·9137364	·0001477978
6767	67.101	45792289	309876419663	82·2617773	18·9146681	·0001477760
6768	$2^4.3^2.47$	45805824	310013816832	82·2678552	18·9155998	·0001477541
6769	7.967	45819361	310151254609	82·2739327	18·9165314	·0001477323
6770	2.5.677	45832900	310288733000	82·2800097	18·9174628	·0001477105
6771	3.37.61	45846441	310426252011	82·2860863	18·9183942	·0001476887
6772	$2^2.1693$	45859984	310563811648	82·2921625	18·9193255	·0001476669
6773	13.521	45873529	310701411917	82·2982382	18·9202567	·0001476451
6774	2.3.1129	45887076	310839052824	82·3043134	18·9211878	·0001476233
6775	$5^2.271$	45900625	310976734375	82·3103882	18·9221189	·0001476015
6776	$2^3.7.11^2$	45914176	311114456576	82·3164625	18·9230498	·0001475797
6777	$3^2.251$	45927729	311252219433	82·3225364	18·9239806	·0001475579
6778	2.3389	45941284	311390022952	82·3286099	18·9249114	·0001475361
6779	.....	45954841	311527867139	82·3346829	18·9258421	·0001475144

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6780	$2^2.3.5.113$	45968400	311665752000	82·3407554	18·9267726	·0001474926
6781	.....	45981961	311803677541	82·3468975	18·9277031	·0001474709
6782	2.3391	45995524	311941643768	82·3528992	18·9286335	·0001474491
6783	3.7.17.19	46009089	312079650687	82·3589704	18·9295638	·0001474274
6784	$2^7.53$	46022656	312217698304	82·3650411	18·9304940	·0001474057
6785	5.23.59	46036225	312355786625	82·3711115	18·9314241	·0001473839
6786	$2.3^2.13.19$	46049796	312493915656	82·3771813	18·9323541	·0001473622
6787	11.617	46063369	312632085403	82·3832507	18·9332840	·0001473405
6788	$2^2.1697$	46076944	312770295872	82·3893197	18·9342138	·0001473188
6789	3.31.73	46090521	312908547069	82·3953882	18·9351436	·0001472971
6790	2.5.7.97	46104100	313046839000	82·4014563	18·9360732	·0001472754
6791	.....	46117681	313185171671	82·4075240	18·9370028	·0001472537
6792	$2^3.3.283$	46131264	313323545088	82·4135911	18·9379323	·0001472320
6793	.....	46144849	313461959257	82·4196579	18·9388617	·0001472104
6794	2.43.79	46158436	313600414184	82·4257241	18·9397909	·0001471887
6795	$3^2.5.151$	46172025	313738909875	82·4317900	18·9407201	·0001471670
6796	$2^2.1699$	46185616	313877446336	82·4378554	18·9416492	·0001471454
6797	7.971	46199209	314016023573	82·4439204	18·9425782	·0001471237
6798	2.3.11.103	46212804	314154641592	82·4499849	18·9435072	·0001471021
6799	13.523	46226401	314293300399	82·4560489	18·9444360	·0001470805
6800	$2^4.5^2.17$	46240000	314432000000	82·4621125	18·9453647	·0001470588
6801	3.2267	46253601	314570740401	82·4681757	18·9462934	·0001470372
6802	2.19.179	46267204	314709521608	82·4742384	18·9472219	·0001470156
6803	.....	46280809	314848343627	82·4803007	18·9481504	·0001469940
6804	$2^2.3^3.7$	46294416	314987206464	82·4863625	18·9490788	·0001469724
6805	5.1361	46308025	315126110125	82·4924239	18·9500071	·0001469508
6806	2.41.83	46321636	315265054616	82·4984849	18·9509353	·0001469292
6807	3.2269	46335249	315404039943	82·5045454	18·9518634	·0001469076
6808	$2^3.23.37$	46348864	315543066112	82·5106055	18·9527914	·0001468860
6809	11.619	46362481	315682133129	82·5166651	18·9537193	·0001468644
6810	2.3.5.227	46376100	315821241000	82·5227242	18·9546471	·0001468429
6811	$7^3.139$	46389721	315960389731	82·5287830	18·9555749	·0001468213
6812	$2^2.13.131$	46403344	316099579328	82·5348412	18·9565025	·0001467998
6813	$3^2.757$	46416969	316238809797	82·5408990	18·9574301	·0001467782
6814	2.3407	46430596	316378081144	82·5469563	18·9583575	·0001467567
6815	5.29.47	46444225	316517393375	82·5530132	18·9592849	·0001467351
6816	$2^3.3.71$	46457856	316656746496	82·5590697	18·9602122	·0001467136
6817	17.401	46471489	316796140513	82·5651258	18·9611394	·0001466921
6818	2.7.487	46485124	316935575432	82·5711814	18·9620665	·0001466706
6819	3.2273	46498761	317075051259	82·5772365	18·9629935	·0001466491
6820	$2^2.5.11.31$	46512400	317214568000	82·5832912	18·9639204	·0001466276
6821	19.359	46526041	317354125661	82·5893455	18·9648473	·0001466061
6822	$2.3^2.379$	46539684	317493724248	82·5953994	18·9657740	·0001465846
6823	.....	46553329	317633363767	82·6014528	18·9667007	·0001465631
6824	$2^3.853$	46566976	317773044224	82·6075057	18·9676272	·0001465416
6825	$3.5^2.7.13$	46580625	317912765625	82·6135582	18·9685537	·0001465201
6826	2.3413	46594276	318052527976	82·6196102	18·9694801	·0001464987
6827	.....	46607929	318192331283	82·6256618	18·9704064	·0001464772
6828	$2^2.3.569$	46621584	318332175552	82·6317130	18·9713326	·0001464558
6829	.....	46635241	318472060789	82·6377637	18·9722587	·0001464343
6830	2.5.683	46648900	318611987000	82·6438140	18·9731847	·0001464129
6831	$3^3.11.23$	46662561	318751954191	82·6498639	18·9741106	·0001463915
6832	$2^4.7.61$	46676224	318891962368	82·6559133	18·9750364	·0001463700
6833	.....	46689889	319032011537	82·6619622	18·9759622	·0001463486
6834	2.3.17.67	46705556	319172101704	82·6680107	18·9768879	·0001463272
6835	5.1367	46717225	319312232875	82·6740588	18·9778134	·0001463058
6836	$2^2.1709$	46730896	319452405056	82·6801064	18·9787389	·0001462844
6837	3.43.53	46744569	319592618253	82·6861536	18·9796643	·0001462630
6838	2.13.263	46758244	319732872472	82·6922003	18·9805896	·0001462416
6839	7.977	46771921	319873167719	82·6982467	18·9815148	·0001462202

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6840	$2^3.3^2.5.19$	46785600	320013504000	82·7042925	18·9824399	·0001461988
6841	.....	46799281	320153881321	82·7103379	18·9883649	·0001461775
6842	2.11.311	46812964	320294299688	82·7163829	18·9842899	·0001461561
6843	$3^3.2281$	46826649	320434759107	82·7224274	18·9852147	·0001461347
6844	$2^2.29.59$	46840336	320575259584	82·7284715	18·9861395	·0001461134
6845	5.37^2	46854025	320715801125	82·7345152	18·9870641	·0001460920
6846	2.3.7.163	46867716	320856383736	82·7405584	18·9879886	·0001460707
6847	41.167	46881409	320997007423	82·7466011	18·9889132	·0001460494
6848	$2^6.107$	46895104	321137672192	82·7526435	18·9898376	·0001460280
6849	$3^2.761$	46908801	321278378049	82·7586853	18·9907619	·0001460067
6850	$2.5^2.137$	46922500	321419125000	82·7647268	18·9916861	·0001459854
6851	13.17.31	46936201	321559913051	82·7707678	18·9926102	·0001459641
6852	$2^2.3.571$	46949904	321700742208	82·7768083	18·9935343	·0001459428
6853	7.11.89	46963609	321841612477	82·7828485	18·9944582	·0001459215
6854	2.23.149	46977316	321982523864	82·7888881	18·9953821	·0001459002
6855	3.5.457	46991025	322123476375	82·7949274	18·9963058	·0001458789
6856	$2^3.857$	47004736	322264470016	82·8009662	18·9972295	·0001458576
6857	.....	47018449	322405504795	82·8070045	18·9981531	·0001458364
6858	$2.3^3.127$	47032164	322546580712	82·8130425	18·9990766	·0001458151
6859	19^3	47045881	322687697779	82·8190799	19·0000000	·0001457938
6860	$2^2.5.7^3$	47059600	322828856000	82·8251170	19·0009233	·0001457726
6861	3.2287	47073321	322970055381	82·8311536	19·0018466	·0001457513
6862	2.47.73	47087044	323111295928	82·8371897	19·0027697	·0001457301
6863	.....	47100769	323252577647	82·8432255	19·0036927	·0001457089
6864	$2^6.3.11.13$	47114496	323393900544	82·8492607	19·0046157	·0001456876
6865	5.1373	47128225	323535264625	82·8552956	19·0055386	·0001456664
6866	2.3433	47141956	323676669896	82·8613300	19·0064613	·0001456452
6867	$3^2.7.109$	47155689	323818116363	82·8673639	19·0073840	·0001456240
6868	$2^2.17.0$	47169424	323959604032	82·8733974	19·0083066	·0001456028
6869	.....	47183161	324101132909	82·8794305	19·0092291	·0001455816
6870	2.3.5.229	47196900	324242703000	82·8854631	19·0101516	·0001455604
6871	.....	47210641	324384314311	82·8914953	19·0110739	·0001455392
6872	$2^3.859$	47224384	324525966848	82·8975271	19·0119961	·0001455180
6873	3.29.79	47238129	324667660617	82·9035584	19·0129183	·0001454969
6874	2.7.491	47251876	324809395624	82·9095893	19·0138403	·0001454757
6875	$5^4.11$	47265625	324951171875	82·9156197	19·0147623	·0001454545
6876	$2^2.3^2.191$	47279376	325092989376	82·9216498	19·0156842	·0001454334
6877	13.23^2	47293129	325234848133	82·9276793	19·0166060	·0001454123
6878	2.19.181	47306884	325376748152	82·9337085	19·0175277	·0001453911
6879	3.2293	47320641	325518689439	82·9397372	19·0184493	·0001453700
6880	$2^6.5.43$	47334400	325660672000	82·9457654	19·0193709	·0001453488
6881	7.983	47348161	325802695841	82·9517933	19·0202923	·0001453277
6882	2.3.31.37	47361924	325944760968	82·9578206	19·0212136	·0001453066
6883	.....	47375689	326086867387	82·9638476	19·0221349	·0001452855
6884	$2^2.1721$	47389456	326229015104	82·9698741	19·0230561	·0001452644
6885	$3^4.5.17$	47403225	326371204125	82·9759001	19·0239771	·0001452433
6886	2.11.313	47416996	326513434456	82·9819258	19·0248981	·0001452222
6887	71.97	47430769	326655706103	82·9879510	19·0258190	·0001452011
6888	$2^3.3.7.41$	47444544	326798019072	82·9939757	19·0267398	·0001451800
6889	83^2	47458321	326940373369	83·0000000	19·0276606	·0001451589
6890	2.5.13.53	47472100	327082769000	83·0060237	19·0285812	·0001451379
6891	3.2297	47485881	327225205971	83·0120473	19·0295017	·0001451168
6892	$2^2.1723$	47499664	327367684288	83·0180703	19·0304222	·0001450958
6893	61.113	47513449	327510203957	83·0240929	19·0313425	·0001450747
6894	$2.3^2.383$	47527236	327652764984	83·0301150	19·0322628	·0001450537
6895	5.7.197	47541025	327795367375	83·0361367	19·0331830	·0001450326
6896	$2^4.431$	47554816	327938011136	83·0421580	19·0341031	·0001450116
6897	$3.11^3.19$	47568609	328080696273	83·0481788	19·0350231	·0001449906
6898	2.3449	47582404	328223422792	83·0541992	19·0359430	·0001449696
6899	.....	47596201	328366190699	83·0602192	19·0368629	·0001449485

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6900	$2^2.3.5^2.23$	47610000	328509000000	83·0662387	19·0377826	·0001449275
6901	67.103	47623801	328651850701	83·0722577	19·0387023	·0001449065
6902	2.7.17.29	47637604	328794742808	83·0782764	19·0396218	·0001448855
6903	$3^2.13.59$	47651409	328937676327	83·0842945	19·0405413	·0001448646
6904	$2^3.863$	47665216	329080651264	83·0903123	19·0414607	·0001448436
6905	5.1381	47679025	329223667625	83·0963297	19·0423800	·0001448226
6906	2.3.1151	47692836	329366725416	83·1023466	19·0432992	·0001448016
6907	.....	47706649	329509824643	83·1083630	19·0442183	·0001447807
6908	$2^2.11.157$	47720464	329652965312	83·1143791	19·0451374	·0001447597
6909	$3.7^2.47$	47734281	329796147429	83·1203947	19·0460563	·0001447387
6910	2.5.691	47748100	329939371000	83·1264098	19·0469752	·0001447178
6911	.....	47761921	330082636031	83·1324245	19·0478940	·0001446969
6912	$2^6.3^2$	47775744	330225942528	83·1384388	19·0488127	·0001446759
6913	31.223	47789569	330369290497	83·1444526	19·0497313	·0001446550
6914	2.3457	47803396	330512679944	83·1504660	19·0506498	·0001446341
6915	3.5.461	47817225	330656110875	83·1564790	19·0515682	·0001446132
6916	$2^2.7.13.19$	47831056	330799583296	83·1624915	19·0524865	·0001445922
6917	.....	47844889	330943097213	83·1685036	19·0534047	·0001445713
6918	2.3.1153	47858724	331086652632	83·1745153	19·0543229	·0001445504
6919	11.17.37	47872561	331230249559	83·1805265	19·0552409	·0001445296
6920	$2^3.5.173$	47886400	331373888000	83·1865374	19·0561589	·0001445087
6921	$3^2.769$	47900241	331517567961	83·1925477	19·0570768	·0001444878
6922	2.3461	47914084	331661289448	83·1985577	19·0579946	·0001444669
6923	7.23.43	47927929	331805052467	83·2045672	19·0589123	·0001444460
6924	$2^2.3.577$	47941776	331948857024	83·2105762	19·0598299	·0001444252
6925	$5^2.277$	47955625	332092703125	83·2165848	19·0607474	·0001444043
6926	2.3463	47969476	332236590776	83·2225930	19·0616649	·0001443835
6927	3.2309	47983329	332380519983	83·2286008	19·0625822	·0001443626
6928	$2^4.433$	47997184	332524490752	83·2346082	19·0634995	·0001443418
6929	$13^2.41$	48011041	332668503089	83·2406151	19·0644167	·0001443210
6930	$2.3^2.5.7.11$	48024900	332812557000	83·2466216	19·0653338	·0001443001
6931	29.239	48038761	332956652491	83·2526276	19·0662507	·0001442793
6932	$2^2.1733$	48052624	333100789568	83·2586332	19·0671676	·0001442585
6933	3.2311	48066489	333244968237	83·2646383	19·0680845	·0001442377
6934	2.3467	48080356	333389188504	83·2706431	19·0690012	·0001442169
6935	5.19.73	48094225	333533450375	83·2766474	19·0699178	·0001441961
6936	$2^3.3.17^2$	48108096	333677753856	83·2826512	19·0708344	·0001441758
6937	7.991	48121969	333822098953	83·2886547	19·0717509	·0001441545
6938	2.3469	48135844	333966485672	83·2946577	19·0726673	·0001441338
6939	$3^2.257$	48149721	334110914019	83·3006603	19·0735836	·0001441130
6940	$2^2.5.347$	48163600	334255384000	83·3066624	19·0744998	·0001440922
6941	11.631	48177481	334399895621	83·3126641	19·0754159	·0001440715
6942	2.3.13.89	48191364	334544448888	83·3186654	19·0763319	·0001440507
6943	53.131	48205249	334689043807	83·3246662	19·0772479	·0001440300
6944	$2^5.7.31$	48219136	334833680384	83·3306666	19·0781637	·0001440092
6945	3.5.463	48233025	334978358625	83·3366666	19·0790795	·0001439885
6946	$2.23.151$	48246916	335123078536	83·3426661	19·0799952	·0001439678
6947	.....	48260809	335267840123	83·3486653	19·0809108	·0001439470
6948	$2^2.3^2.193$	48274704	335412643392	83·3546639	19·0818263	·0001439263
6949	.....	48288601	335557488349	83·3606622	19·0827417	·0001439056
6950	$2.5^2.139$	48302500	335702375000	83·3666600	19·0836570	·0001438849
6951	3.7.331	48316401	335847303351	83·3726574	19·0845723	·0001438642
6952	$2^3.11.79$	48330304	335992273408	83·3786543	19·0854874	·0001438435
6953	17.409	48344209	336137285177	83·3846508	19·0864025	·0001438228
6954	$2.3.19.61$	48358116	336282338664	83·3906469	19·0873174	·0001438021
6955	5.13.107	48372025	336427433875	83·3966426	19·0882323	·0001437815
6956	$2^2.37.47$	48385936	336572570816	83·4026378	19·0891471	·0001437608
6957	$3^2.773$	48399849	336717749493	83·4086326	19·0900618	·0001437401
6958	$2.7^2.71$	48413764	336862969912	83·4146270	19·0909764	·0001437195
6959	.....	48427681	337008232079	83·4206210	19·0918909	·0001436988

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
6960	$2^4.3.5.29$	48441600	337153536000	83·4266145	19·0928054	·0001436782
6961	.....	48455521	337298881681	83·4326075	19·0937198	·0001436575
6962	2.59^2	48469444	337444269128	83·4386002	19·0946340	·0001436369
6963	3.11.211	48483369	337589698347	83·4445924	19·0955482	·0001436163
6964	$2^2.1741$	48497296	337735169344	83·4505842	19·0964623	·0001435956
6965	5.7.199	48511225	337880682125	83·4565755	19·0973763	·0001435750
6966	$2.3^4.43$	48525156	338026236696	83·4625665	19·0982903	·0001435544
6967	.....	48539089	338171833063	83·4685569	19·0992041	·0001435338
6968	$2^3.13.67$	48553024	338317471232	83·4745470	19·1001179	·0001435132
6969	3.23.101	48566961	338463151209	83·4805367	19·1010315	·0001434926
6970	2.5.17.41	48580900	338608873000	83·4865259	19·1019451	·0001434720
6971	.....	48594841	338754636611	83·4925146	19·1028586	·0001434514
6972	$2^2.3.7.83$	48608784	338900442048	83·4985030	19·1037720	·0001434309
6973	19.367	48622729	339046289317	83·5044909	19·1046853	·0001434103
6974	2.11.317	48636676	339192178424	83·5104784	19·1055985	·0001433897
6975	$3^2.5^2.31$	48650625	339338109375	83·5164654	19·1065117	·0001433692
6976	$2^6.109$	48664576	339484082176	83·5224521	19·1074247	·0001433486
6977	.....	48678529	339630096833	83·5284383	19·1083377	·0001433281
6978	2.3.1163	48692484	339776153352	83·5344240	19·1092506	·0001433075
6979	7.997	48706441	339922251739	83·5404094	19·1101634	·0001432870
6980	$2^2.5.349$	48720400	340068392000	83·5463943	19·1110761	·0001432665
6981	3.13.179	48734361	340214574141	83·5523788	19·1119887	·0001432460
6982	2.3491	48748324	340360798168	83·5583628	19·1129012	·0001432254
6983	.....	48762289	340507064087	83·5643464	19·1138137	·0001432049
6984	$2^3.3^2.97$	48776256	340653371904	83·5703297	19·1147260	·0001431844
6985	5.11.127	48790225	340799721625	83·5763124	19·1156383	·0001431639
6986	2.7.499	48804196	340946113256	83·5822948	19·1165505	·0001431434
6987	3.17.137	48818169	341092546803	83·5882767	19·1174625	·0001431229
6988	$2^2.1747$	48832144	341239022272	83·5942582	19·1183745	·0001431025
6989	29.241	48846121	341385539669	83·6002393	19·1192865	·0001430820
6990	2.3.5.233	48860100	341532099000	83·6062199	19·1201983	·0001430616
6991	.....	48874081	341678700271	83·6122001	19·1211100	·0001430411
6992	$2^4.19.23$	48888064	341825343488	83·6181799	19·1220217	·0001430206
6993	$3^3.7.37$	48902049	341972028657	83·6241592	19·1229333	·0001430001
6994	2.13.269	48916036	342118755784	83·6301381	19·1238448	·0001429797
6995	5.1399	48930025	342265524875	83·6361166	19·1247562	·0001429593
6996	$2^2.3.11.53$	48944016	342412335936	83·6420947	19·1256675	·0001429388
6997	.....	48958009	342559188973	83·6480723	19·1265787	·0001429184
6998	2.3499	48972004	342706083992	83·6540495	19·1274898	·0001428980
6999	3.2333	48986001	342853020999	83·6600263	19·1284009	·0001428776
7000	$2^3.5^3.7$	49000000	343000000000	83·6660027	19·1293118	·0001428571
7001	.....	49014001	343147021001	83·6719786	19·1302227	·0001428367
7002	$2.3^2.389$	49028004	343294084008	83·6779541	19·1311335	·0001428163
7003	47.149	49042009	343441189027	83·6839292	19·1320442	·0001427959
7004	$2^2.17.103$	49056016	343588336064	83·6899038	19·1329549	·0001427756
7005	3.5.467	49070025	343735525125	83·6958781	19·1338654	·0001427552
7006	2.31.113	49084036	343882756216	83·7018519	19·1347758	·0001427348
7007	$7^2.11.13$	49098049	344030029343	83·7078252	19·1356862	·0001427144
7008	$2^5.3.73$	49112064	344177344512	83·7137982	19·1365964	·0001426941
7009	43.163	49126081	344324701729	83·7197707	19·1375066	·0001426737
7010	2.5.701	49140100	344472101000	83·7257428	19·1384167	·0001426534
7011	$3^3.19.41$	49154121	344619542331	83·7317144	19·1393267	·0001426330
7012	$2^2.1753$	49168144	344767025728	83·7376857	19·1402366	·0001426127
7013	.....	49182169	344914551197	83·7436565	19·1411465	·0001425923
7014	2.3.7.167	49196196	345062118744	83·7496269	19·1420562	·0001425720
7015	5.23.61	49210225	345209728375	83·7555969	19·1429659	·0001425517
7016	$2^3.877$	49224256	345357380096	83·7615664	19·1438755	·0001425314
7017	3.2339	49238289	345505073913	83·7675355	19·1447850	·0001425110
7018	$2.11^2.29$	49252324	345652809832	83·7735042	19·1456944	·0001424907
7019	.....	49266361	345800587859	83·7794725	19·1466037	·0001424704

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7020	$2^2.3^3.5.13$	49280400	345948408000	83·7854403	19·1475129	·0001424501
7021	7.17.59	49294441	346096270261	83·7914077	19·1484220	·0001424299
7022	2.3511	49308484	346244174648	83·7973746	19·1493311	·0001424096
7023	3.2341	49322529	346392121167	83·8033412	19·1502401	·0001423893
7024	$2^4.439$	49336576	346540109824	83·8093073	19·1511490	·0001423690
7025	$5^2.281$	49350625	346688140625	83·8152730	19·1520578	·0001423488
7026	2.3.1171	49364676	346836213576	83·8212383	19·1529665	·0001423285
7027	.....	49378729	346984328683	83·8272032	19·1538751	·0001423082
7028	$2^2.7.251$	49392784	347132485952	83·8331676	19·1547836	·0001422880
7029	$3^2.11.71$	49406841	347280685389	83·8391317	19·1556921	·0001422677
7030	2.5.19.37	49420900	347428927000	83·8450952	19·1566005	·0001422475
7031	79.89	49434961	347577210791	83·8510584	19·1575088	·0001422273
7032	$2^3.3.293$	49449024	347725536768	83·8570211	19·1584170	·0001422071
7033	13.541	49463089	347873904937	83·8629835	19·1593251	·0001421868
7034	2.3517	49477156	348022315304	83·8689453	19·1602331	·0001421666
7035	3.5.7.67	49491225	348170767875	83·8749068	19·1611410	·0001421464
7036	$2^2.1759$	49505296	348319262656	83·8808678	19·1620489	·0001421263
7037	31.227	49519369	348467799653	83·8868285	19·1629567	·0001421061
7038	$2.3^2.17.23$	49533444	348616378872	83·8927887	19·1638643	·0001420858
7039	.....	49547521	348765000319	83·8987485	19·1647719	·0001420655
7040	27.5.11	49561600	348913664000	83·9047078	19·1656794	·0001420455
7041	3.2347	49575681	349062369921	83·9106667	19·1665868	·0001420253
7042	2.7.503	49589764	349211118088	83·9166252	19·1674942	·0001420051
7043	.....	49603849	349359908507	83·9225833	19·1684014	·0001419850
7044	$2^2.3.587$	49617936	349508741184	83·9285410	19·1693086	·0001419648
7045	5.1409	49632025	349657616125	83·9344982	19·1702157	·0001419446
7046	2.13.271	49646116	349806533336	83·9404550	19·1711227	·0001419245
7047	$3^4.29$	49660209	349955492823	83·9464115	19·1720296	·0001419044
7048	$2^3.881$	49674304	350104494592	83·9523674	19·1729364	·0001418842
7049	7.19.53	49688401	350253538649	83·9583230	19·1738431	·0001418641
7050	$2.3.5^2.47$	49702500	350402625000	83·9642781	19·1747498	·0001418440
7051	11.641	49716601	350551753651	83·9702328	19·1756563	·0001418239
7052	$2^2.41.43$	49730704	350700924608	83·9761871	19·1765628	·0001418037
7053	3.2351	49744809	350850137877	83·9821409	19·1774692	·0001417836
7054	2.3527	49758916	350999393464	83·9880944	19·1783755	·0001417635
7055	5.17.83	49773025	351148691375	83·9940474	19·1792817	·0001417434
7056	$2^4.3^2.7^2$	49787136	351298031616	84·0000000	19·1801879	·0001417234
7057	.....	49801249	351447414193	84·0059522	19·1810939	·0001417033
7058	2.3529	49815364	351596839112	84·0119039	19·1819999	·0001416832
7059	3.13.181	49829481	351746306379	84·0178552	19·1829057	·0001416631
7060	$2^2.5.353$	49843600	351895816000	84·0238061	19·1838115	·0001416431
7061	23.307	49857721	352045367981	84·0297566	19·1847172	·0001416230
7062	2.3.11.107	49871844	352194962328	84·0357067	19·1856228	·0001416029
7063	7.1009	49885969	352344599047	84·0416563	19·1865284	·0001415829
7064	$2^3.883$	49900096	352494278144	84·0476055	19·1874338	·0001415629
7065	$3^2.5.157$	49914225	352643999625	84·0535544	19·1883392	·0001415428
7066	2.3533	49928356	352793763496	84·0595027	19·1892445	·0001415228
7067	37.191	49942489	352943569763	84·0654507	19·1901498	·0001415028
7068	$2^2.3.19.31$	49956624	353093418432	84·0713982	19·1910549	·0001414827
7069	.....	49970761	353243309509	84·0773453	19·1919599	·0001414627
7070	2.5.7.101	49984900	353393243000	84·0832920	19·1928649	·0001414427
7071	3.2357	49999041	353543218911	84·0892383	19·1937698	·0001414227
7072	$2^3.13.17$	50013184	353693237248	84·0951841	19·1946746	·0001414027
7073	11.643	50027329	353843298017	84·1011296	19·1955793	·0001413827
7074	$2.3^2.131$	50041476	353993401224	84·1070746	19·1964839	·0001413627
7075	$5^2.283$	50055625	354143546875	84·1130192	19·1973884	·0001413428
7076	$2^2.29.61$	50069776	354293734976	84·1189634	19·1982928	·0001413228
7077	3.7.337	50083929	354443965533	84·1249071	19·1991971	·0001413028
7078	2.3539	50098084	354594238552	84·1308505	19·2001013	·0001412828
7079	.....	50112241	354744554039	84·1367934	19·2010055	·0001412629

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7080	$2^3.3.5.59$	50126400	354894912000	84·1427359	19·2019096	·0001412429
7081	73.97	50140561	355045312441	84·1486779	19·2028135	·0001412230
7082	2.3541	50154724	355195755368	84·1546196	19·2037174	·0001412030
7083	$3^3.787$	50168889	355346240787	84·1605608	19·2046213	·0001411831
7084	$2^2.7.11.23$	50183056	355496768704	84·1665016	19·2055250	·0001411632
7085	5.13.109	50197225	355647339125	84·1724420	19·2064287	·0001411433
7086	2.3.1181	50211396	355797952056	84·1783820	19·2073323	·0001411233
7087	19.373	50225569	355948607503	84·1843216	19·2082357	·0001411034
7088	$2^4.443$	50239744	356099305472	84·1902607	19·2091391	·0001410835
7089	3.17.139	50253921	356250045969	84·1961994	19·2100425	·0001410636
7090	2.5.709	50268100	356400829000	84·2021377	19·2109457	·0001410437
7091	7.1013	50282281	356551654571	84·2080756	19·2118489	·0001410238
7092	$2^2.3^2.197$	50296464	356702522688	84·2140131	19·2127519	·0001410039
7093	41.173	50310649	356853433357	84·2199501	19·2136549	·0001409841
7094	2.3547	50324836	357004386584	84·2258868	19·2145578	·0001409642
7095	3.5.11.43	50339025	357155382375	84·2318230	19·2154607	·0001409443
7096	$2^3.887$	50353216	357306420736	84·2377588	19·2163634	·0001409245
7097	47.151	50367409	357457501673	84·2436942	19·2172660	·0001409046
7098	$2.3.7.13^2$	50381604	357608625192	84·2496291	19·2181686	·0001408848
7099	31.229	50395801	357759791299	84·2555637	19·2190710	·0001408649
7100	$2^2.5^2.71$	50410000	357911000000	84·2614978	19·2199734	·0001408451
7101	$3^2.263$	50424201	358062251301	84·2674314	19·2208757	·0001408252
7102	2.53.67	50438404	358213545208	84·2733647	19·2217779	·0001408054
7103	.....	50452609	358364881727	84·2792976	19·2226801	·0001407856
7104	$2^6.3.37$	50466816	358516260864	84·2852300	19·2235821	·0001407658
7105	$5.7^2.29$	50481025	358667682625	84·2911621	19·2244841	·0001407460
7106	2.11.17.19	50495236	358819147016	84·2970937	19·2253860	·0001407261
7107	3.23.103	50509449	358970654043	84·3030249	19·2262878	·0001407063
7108	$2^2.1777$	50523664	359122203712	84·3089556	19·2271895	·0001406866
7109	.....	50537881	359273796029	84·3148860	19·2280911	·0001406668
7110	$2.3^2.5.79$	50552100	359425431000	84·3208159	19·2289926	·0001406470
7111	13.547	50566321	359577108631	84·3267455	19·2298941	·0001406272
7112	$2^3.7.127$	50580544	359728828928	84·3326746	19·2307955	·0001406074
7113	3.2371	50594769	359880591897	84·3386033	19·2316968	·0001405877
7114	2.3557	50608996	360032397544	84·3445316	19·2325979	·0001405679
7115	5.1423	50623225	360184245875	84·3504594	19·2334990	·0001405481
7116	$2^2.3.593$	50637456	360336136896	84·3563869	19·2344001	·0001405284
7117	11.647	50651689	360488070613	84·3623139	19·2353011	·0001405086
7118	2.3559	50665924	360640047032	84·3682405	19·2362019	·0001404889
7119	$3^3.7.113$	50680161	360792066159	84·3741667	19·2371027	·0001404692
7120	$2^4.5.89$	50694400	360944128000	84·3800925	19·2380034	·0001404494
7121	.....	50708641	361096232561	84·3860178	19·2389041	·0001404297
7122	2.3.1187	50722884	361248379848	84·3919428	19·2398046	·0001404100
7123	17.419	50737129	361400569867	84·3978673	19·2407050	·0001403903
7124	$2^2.13.137$	50751876	361552802624	84·4037914	19·2416054	·0001403706
7125	$3.5^3.19$	50765625	361705078125	84·4097151	19·2425057	·0001403509
7126	2.7.509	50779376	361857396376	84·4156384	19·2434059	·0001403312
7127	.....	50794129	362009757383	84·4215612	19·2443060	·0001403115
7128	$2^3.3^4.11$	50808384	362162161152	84·4274837	19·2452060	·0001402918
7129	.....	50822641	362314607689	84·4334057	19·2461060	·0001402721
7130	2.5.23.31	50836900	362467097000	84·4393274	19·2470058	·0001402525
7131	3.2377	50851161	362619629091	84·4452486	19·2479056	·0001402328
7132	$2^2.1783$	50865424	362772203968	84·4511694	19·2488053	·0001402131
7133	7.1019	50879689	362924821637	84·4570898	19·2497049	·0001401935
7134	2.3.29.41	50893956	363077482104	84·4630097	19·2506044	·0001401738
7135	5.1427	50908225	363230185375	84·4689292	19·2515038	·0001401542
7136	$2^6.223$	50922496	363382931456	84·4748484	19·2524032	·0001401345
7137	$3^3.13.61$	50936769	363535720353	84·4807670	19·2533024	·0001401149
7138	2.43.83	50951044	363688552072	84·4866853	19·2542016	·0001400953
7139	$11^3.59$	50965321	363841426619	84·4926032	19·2551007	·0001400756

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7140	$2^2.3.5.7.17$	50979600	363994344000	84·4985207	19·2559997	·0001400560
7141	37.193	50993881	364147304221	84·5044377	19·2568987	·0001400364
7142	2.3571	51008164	364300307288	84·5103543	19·2577975	·0001400168
7143	3.2381	51022449	364453353207	84·5162706	19·2586963	·0001399972
7144	$2^3.19.47$	51036736	364606441984	84·5221864	19·2595949	·0001399776
7145	5.1429	51051025	364759573625	84·5281018	19·2604935	·0001399580
7146	$2.3^2.397$	51065316	364912748136	84·5340168	19·2613920	·0001399384
7147	7.1021	51079609	365065965523	84·5399314	19·2622905	·0001399188
7048	$2^2.1787$	51093904	365219225792	84·5458455	19·2631888	·0001398993
7149	3.2383	51108201	365372528949	84·5517593	19·2640871	·0001398797
7150	$2.5^2.11.13$	51122500	365525875000	84·5576725	19·2649852	·0001398601
7151	.....	51136801	365679263951	84·5635854	19·2658833	·0001398406
7152	$2^4.3.149$	51151004	365832695808	84·5694979	19·2667814	·0001398210
7153	23.311	51165409	365986170577	84·5754100	19·2676793	·0001398015
7154	$2.7^2.73$	51179716	366139688264	84·5813217	19·2685771	·0001397819
7155	$3^2.5.53$	51194025	366293248875	84·5872331	19·2694749	·0001397624
7156	$2^2.1789$	51208336	366446852416	84·5931439	19·2703726	·0001397429
7157	17.421	51222649	366600498893	84·5990543	19·2712702	·0001397233
7158	2.3.1193	51236964	366754188312	84·6049644	19·2721676	·0001397038
7159	.....	51251281	366907920679	84·6108740	19·2730651	·0001396843
7160	$2^3.5.79$	51265600	367061696000	84·6167832	19·2739624	·0001396648
7161	3.7.11.31	51279921	367215514281	84·6226920	19·2748596	·0001396453
7162	2.3581	51294244	367369375528	84·6286003	19·2757568	·0001396258
7163	13.19.29	51308569	367523279747	84·6345083	19·2766539	·0001396063
7164	$2^2.3^2.199$	51322896	367677226944	84·6404159	19·2775509	·0001395868
7165	5.1433	51337225	367831217125	84·6463230	19·2784478	·0001395673
7166	2.3583	51351556	367985250296	84·6522297	19·2793447	·0001395479
7167	3.2389	51365889	368139326463	84·6581360	19·2802414	·0001395284
7168	$2^{10}.7$	51380224	368293445632	84·6640419	19·2811381	·0001395089
7169	67.107	51394561	368447607809	84·6699474	19·2820347	·0001394895
7170	2.3.5.239	51408900	368601813000	84·6758525	19·2829312	·0001394700
7171	71.101	51423241	368756061211	84·6817572	19·2838276	·0001394506
7172	$2^2.11.163$	51437584	368910352448	84·6876614	19·2847240	·0001394311
7173	$3^2.797$	51451929	369064686717	84·6935653	19·2856202	·0001394117
7174	2.17.211	51466276	369219064024	84·6994687	19·2865164	·0001393922
7175	$5^2.7.41$	51480625	369373484375	84·7053717	19·2874125	·0001393728
7176	$2^3.3.13.23$	51494976	369527947776	84·7112743	19·2883085	·0001393534
7177	.....	51509329	369682454233	84·7171765	19·2892044	·0001393340
7178	2.37.97	51523684	369837003752	84·7230783	19·2901003	·0001393146
7179	3.2393	51538041	369991596339	84·7289797	19·2909960	·0001392952
7180	$2^2.5.359$	51552400	370146232000	84·7348807	19·2918917	·0001392758
7181	43.167	51566761	370300910741	84·7407812	19·2927872	·0001392564
7182	$2.3^3.7.19$	51581124	370455632568	84·7466814	19·2936827	·0001392370
7183	11.653	51595489	370610397487	84·7525811	19·2945781	·0001392176
7184	$2^4.449$	51609856	370765205504	84·7584804	19·2954735	·0001391982
7185	3.5.479	51624225	370920056625	84·7643793	19·2963688	·0001391788
7186	2.3593	51638596	371074950856	84·7702778	19·2972639	·0001391595
7187	.....	51652969	371229888203	84·7761759	19·2981590	·0001391401
7188	$2^2.3.599$	51667344	371384868672	84·7820736	19·2990540	·0001391208
7189	7.13.79	51681721	371539892269	84·7879709	19·2999490	·0001391014
7190	2.5.719	51696100	371694959000	84·7938677	19·3008438	·0001390821
7191	$3^2.17.47$	51710481	371850068871	84·7997642	19·3017386	·0001390627
7192	$2^3.29.31$	51724864	372005221888	84·8056602	19·3026333	·0001390434
7193	.....	51739249	372160418057	84·8115558	19·3035279	·0001390241
7194	2.3.11.109	51753636	372315657384	84·8174510	19·3044224	·0001390047
7195	5.1439	51768025	372470939875	84·8233459	19·3053168	·0001389854
7196	$2^2.7.257$	51782416	372626265536	84·8292403	19·3062111	·0001389661
7197	3.2399	51796809	372781634373	84·8351343	19·3071054	·0001389468
7198	2.59.61	51811204	372937046392	84·8410278	19·3079996	·0001389275
7199	23.313	51825601	373092501599	84·8469210	19·3088937	·0001389081

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7200	$2^5.3^2.5^2$	51840000	373248000000	84·8528138	19·3097877	·0001388888
7201	19.379	51854401	373403541601	84·8587061	19·3106816	·0001388696
7202	2.13.277	51868804	373559126408	84·8645981	19·3115755	·0001388505
7203	3.7^4	51883209	373714754427	84·8704896	19·3124692	·0001388310
7204	$2^2.1801$	51897616	373870425664	84·8763807	19·3133629	·0001388118
7205	5.11.131	51912025	374026140125	84·8822714	19·3142565	·0001387925
7206	2.3.1201	51926436	374181897816	84·8881618	19·3151500	·0001387732
7207	.....	51940849	374337698743	84·8940517	19·3160435	·0001387540
7208	$2^3.17.53$	51955264	374493542912	84·8999411	19·3169368	·0001387347
7209	$3^4.89$	51969681	374649430329	84·9058302	19·3178301	·0001387155
7210	2.5.7.103	51984100	374805361000	84·9117189	19·3187233	·0001386963
7211	.....	51998521	374961334931	84·9176071	19·3196164	·0001386770
7212	$2^2.3.601$	52012944	375117352128	84·9234950	19·3205094	·0001386578
7213	.....	52027369	375273412597	84·9293824	19·3214023	·0001386386
7214	2.3607	52041796	375429516344	84·9352695	19·3222952	0001386194
7215	3.5.13.37	52056225	375585663375	84·9411561	19·3231880	·0001386001
7216	$2^4.11.41$	52070656	375741853696	84·9470423	19·3240806	·0001385809
7217	7.1031	52085089	375898087313	84·9529281	19·3249732	·0001385617
7218	$2.3^2.401$	52099524	376054364232	84·9588136	19·3258658	·0001385425
7219	.....	52113961	376210684459	84·9646986	19·3267582	·0001385233
7220	$2^2.5.19^2$	52128400	376367048000	84·9705832	19·3276507	·0001385042
7221	3.29.83	52142841	376523454861	84·9764674	19·3285428	·0001384850
7222	2.23.157	52157284	376679905048	84·9823511	19·3294350	·0001384658
7223	31.233	52171729	376836398567	84·9882345	19·3303272	·0001384466
7224	$2^3.3.7.43$	52186176	376992935424	84·9941175	19·3312192	·0001384275
7225	$5^2.17^2$	52200625	377149515625	85·0000000	19·3321111	·0001384083
7226	2.3613	52215076	377306139176	85·0058821	19·3330030	·0001383892
7227	$3^2.11.73$	52229529	377462806083	85·0117639	19·3338948	·0001383700
7228	$2^2.13.139$	52243984	377619516352	85·0176452	19·3347865	·0001383509
7229	.....	52258441	377776269989	85·0235262	19·3356781	·0001383317
7230	2.3.5.241	52272900	377933067000	85·0294067	19·3365696	·0001383126
7231	7.1033	52287361	378089907391	85·0352868	19·3374611	·0001382935
7232	$2^5.113$	52301824	378246791168	85·0411665	19·3383525	·0001382743
7233	3.2411	52316289	378403718337	85·0470458	19·3392438	·0001382552
7234	2.3617	52330756	378560688904	85·0529247	19·3401350	·0001382361
7235	5.1447	52345225	378717702875	85·0588032	19·3410261	·0001382170
7236	$2^2.3^3.67$	52359696	378874760256	85·0646813	19·3419171	·0001381979
7237	.....	52374169	379031861053	85·0705590	19·3428081	·0001381788
7238	2.7.11.47	52388644	379189005272	85·0764362	19·3436990	·0001381597
7239	3.19.127	52403121	379346192919	85·0823131	19·3445898	·0001381406
7240	$2^3.5.181$	52417600	379503424000	85·0881896	19·3454805	·0001381215
7241	13.557	52432081	379660698521	85·0940656	19·3463712	·0001381025
7242	2.3.17.71	52446564	379818016488	85·0999413	19·3472617	·0001380834
7243	.....	52461049	379975377907	85·1058165	19·3481522	·0001380643
7244	$2^2.1811$	52475536	380132782784	85·1116913	19·3490426	·0001380452
7245	$3^2.5.7.23$	52490025	380290231125	85·1175658	19·3499329	·0001380262
7246	2.3623	52504516	380447722936	85·1234398	19·3508231	·0001380072
7247	.....	52519009	380605258223	85·1293134	19·3517133	·0001379881
7248	$2^4.3.151$	52533504	380762836992	85·1351867	19·3526033	·0001379691
7249	11.659	52548001	380920459249	85·1410595	19·3534933	·0001379501
7250	$2.5^3.29$	52562500	381078125000	85·1469319	19·3543832	·0001379310
7251	3.2417	52577001	381235834251	85·1528039	19·3552730	·0001379120
7252	$2^2.7^2.37$	52591504	381393587008	85·1586755	19·3561627	·0001378930
7253	.....	52606009	381551383277	85·1645466	19·3570524	·0001378740
7254	$2.3^3.13.31$	52620516	381709223064	85·1704174	19·3579420	·0001378550
7255	5.1451	52635025	381867106375	85·1762878	19·3588315	·0001378360
7256	$2^3.907$	52649536	382025033216	85·1821577	19·3597208	·0001378170
7257	3.41.59	52664049	382183003593	85·1880273	19·3606102	·0001377980
7258	2.19.191	52678564	382341017512	85·1938964	19·3614994	·0001377790
7259	7.17.61	52693081	382499074979	85·1997652	19·3623886	·0001377600

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7260	$2^2.3.5.11^2$	52707600	382657176000	85·2056336	19·3632776	·0001377410
7261	53.137	52722121	382815320581	85·2115015	19·3641666	·0001377221
7262	2.3631	52736644	382973508728	85·2173691	19·3650556	·0001377031
7263	$3^3.269$	52751169	383131740447	85·2232363	19·3659444	·0001376842
7264	$2^6.227$	52765696	383290015744	85·2291030	19·3668332	·0001376652
7265	5.1453	52780225	383448334625	85·2349693	19·3677218	·0001376462
7266	2.3.7.173	52794756	383606697096	85·2408353	19·3686104	·0001376273
7267	$13^2.43$	52809289	383765103163	85·2467007	19·3694989	·0001376084
7268	$2^2.23.79$	52823824	383923552832	85·2525659	19·3703873	·0001375894
7269	3.2423	52838361	384082046109	85·2584307	19·3712757	·0001375705
7270	2.5.727	52852900	384240583000	85·2642950	19·3721639	·0001375516
7271	11.661	52867441	384399163511	85·2701589	19·3730521	·0001375327
7272	$2^3.3^2.101$	52881984	384557787648	85·2760224	19·3739403	·0001375138
7273	7.1039	52896529	384716455417	85·2818855	19·3748283	·0001374948
7274	2.3637	52911076	384875166824	85·2877482	19·3757162	·0001374759
7275	$3.5^2.97$	52925625	385033921875	85·2936105	19·3766041	·0001374570
7276	$2^2.17.107$	52940176	385192720576	85·2994724	19·3774919	·0001374382
7277	19.383	52954729	385351562933	85·3053339	19·3783796	·0001374193
7278	2.3.1213	52969284	385510448952	85·3111950	19·3792672	·0001374004
7279	29.251	52983841	385669378639	85·3170557	19·3801547	·0001373815
7280	$2^4.5.7.13$	52998400	385828352000	85·3229160	19·3810422	·0001373626
7281	$3^6.809$	53012961	385987369041	85·3287759	19·3819295	·0001373438
7282	2.11.331	53027524	386146429768	85·3346354	19·3828168	·0001373249
7283	.....	53042089	386305534187	85·3404945	19·3837040	·0001373061
7284	$2^2.3.607$	53056656	386464682304	85·3463532	19·3845911	·0001372872
7285	5.31.47	53071225	386623874125	85·3522114	19·3854782	·0001372684
7286	2.3643	53085796	386783109656	85·3580693	19·3863651	·0001372495
7287	3.7.347	53100369	386942388903	85·3639268	19·3872520	·0001372307
7288	$2^3.911$	53114944	387101711872	85·3697839	19·3881388	·0001372119
7289	37.197	53129521	387261078569	85·3756406	19·3890256	·0001371930
7290	$2.3^6.5$	53144100	387420489000	85·3814968	19·3899122	·0001371742
7291	23.317	53158681	387579943171	85·3873527	19·3907987	·0001371554
7292	$2^2.1823$	53173264	387739441088	85·3932081	19·3916852	·0001371366
7293	3.11.13.17	53187849	387898982757	85·3990632	19·3925716	·0001371178
7294	2.7.521	53202436	388058568184	85·4049179	19·3934579	·0001370990
7295	5.1459	53217025	388218197375	85·4107721	19·3943441	·0001370802
7296	2.3.19	53231616	388377870336	85·4166260	19·3952303	·0001370614
7297	.....	53246209	388537587073	85·4224794	19·3961164	·0001370426
7298	2.41.89	53260804	388697347592	85·4283325	19·3970024	·0001370238
7299	$3^3.811$	53275401	388857151899	85·4341852	19·3978883	·0001370051
7300	$2^2.5^2.73$	53290000	389017000000	85·4400375	19·3987741	·0001369863
7301	$7^2.149$	53304601	389176891901	85·4458893	19·3996599	·0001369675
7302	2.3.1217	53319204	389336827608	85·4517407	19·4005455	·0001369488
7303	67.109	53333809	389496807127	85·4575918	19·4014311	·0001369300
7304	$2^3.11.83$	53348416	389656830464	85·4634425	19·4023166	·0001369115
7305	3.5.487	53363025	389816897625	85·4692927	19·4032021	·0001368925
7306	2.13.281	53377636	389977008616	85·4751426	19·4040874	·0001368738
7307	.. ..	53392249	390137163443	85·4809920	19·4049727	·0001368551
7308	$2^2.3^2.7.29$	53406864	390297362112	85·4868411	19·4058578	·0001368363
7309	.....	53421481	390457604629	85·4926897	19·4067429	·0001368176
7310	2.5.17.43	53436100	390617891000	85·4985380	19·4076280	·0001367989
7311	3.2437	53450721	390778221231	85·5043858	19·4085129	·0001367802
7312	$2^4.457$	53465344	390938595328	85·5102333	19·4093978	·0001367615
7313	71.103	53479969	391099013297	85·5160803	19·4102825	·0001367428
7314	2.3.23.53	53494596	391259475144	85·5219270	19·4111672	·0001367241
7315	5.7.11.19	53509225	391419980875	85·5277732	19·4120519	·0001367054
7316	$2^2.31.59$	53523856	391580530496	85·5336191	19·4129364	·0001366867
7317	$3^3.271$	53538489	391741124013	85·5394646	19·4138209	·0001366680
7318	2.3659	53553124	391901761432	85·5453096	19·4147052	·0001366494
7319	13.563	53567761	392062442759	85·5511543	19·4155895	·0001366307

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7320	$2^3.3.5.61$	53582400	392223168000	85·5569986	19·4164738	·0001366120
7321	.....	53597041	392383937161	85·5628424	19·4173579	·0001365994
7322	2.7.523	53611684	392544750248	85·5686859	19·4182420	·0001365747
7323	3.2441	53626329	392705607267	85·5745289	19·4191259	·0001365561
7324	$2^2.1831$	53640976	392866508224	85·5803716	19·4200098	·0001365374
7325	$5^2.293$	53655625	393027453125	85·5862139	19·4208936	·0001365188
7326	$2.3^2.11.37$	53670276	393188441976	85·5920557	19·4217774	·0001365001
7327	17.431	53684929	393349474783	85·5978972	19·4226610	·0001364815
7328	$2^5.229$	53699584	393510551552	85·6037382	19·4235446	·0001364629
7329	3.7.349	53714241	393671672289	85·6095789	19·4244281	·0001364443
7330	2.5.733	53728900	393832837000	85·6154192	19·4253115	·0001364256
7331	.....	53743561	393994045691	85·6212591	19·4261948	·0001364070
7332	$2^2.3.13.47$	53758224	394155298368	85·6270985	19·4270781	·0001363884
7333	.....	53772889	394316595037	85·6329376	19·4279612	·0001363698
7334	2.19.193	53787556	394477935704	85·6387763	19·4288443	·0001363512
7335	$3^2.5.163$	53802225	394639320375	85·6446145	19·4297273	·0001363327
7336	$2^3.7.131$	53816896	394800749056	85·6504524	19·4306103	·0001363141
7337	11.23.29	53831569	394962221753	85·6562899	19·4314931	·0001362955
7338	2.3.1223	53846244	395123738472	85·6621270	19·4323759	·0001362769
7339	41.179	53860921	395285299219	85·6679637	19·4332586	·0001362583
7340	$2^2.5.367$	53875600	395446904000	85·6738000	19·4341412	·0001362399
7341	3.2447	53890281	395608552821	85·6796359	19·4350237	·0001362212
7342	2.3671	53904964	395770245688	85·6854714	19·4359061	·0001362027
7343	7.1049	53919649	395931982607	85·6913065	19·4367885	·0001361841
7344	$2^4.3^3.17$	53934336	396093763584	85·6971411	19·4376708	·0001361656
7345	5.13.113	53949025	396255588625	85·7029754	19·4385530	·0001361470
7346	2.3673	53963716	396417457736	85·7088094	19·4394351	·0001361285
7347	3.31.79	53978409	396579370923	85·7146429	19·4403172	·0001361100
7348	$2^2.11.167$	53993104	396741328192	85·7204760	19·4411991	·0001360915
7349	.....	54007801	396903329549	85·7263087	19·4420810	·0001360729
7350	$2.3.5^2.7^2$	54022500	397065375000	85·7321410	19·4429628	·0001360544
7351	.....	54037201	397227464551	85·7379729	19·4438446	·0001360359
7352	$2^3.919$	54051904	397389598208	85·7438044	19·4447262	·0001360174
7353	$3^3.19.43$	54066609	397551775977	85·7496356	19·4456078	·0001359989
7354	2.3677	54081316	397713997864	85·7554663	19·4464893	·0001359804
7355	5.1471	54096025	397876263875	85·7612967	19·4473707	·0001359619
7356	$2^2.3.613$	54110736	398038574016	85·7671266	19·4482520	·0001359435
7357	7.1051	54125449	398200928293	85·7729561	19·4491333	·0001359250
7358	2.13.283	54140164	398363326712	85·7787853	19·4500144	·0001359065
7359	3.11.223	54154881	398525769279	85·7846140	19·4508955	·0001358880
7360	$2^6.5.23$	54169600	398688256000	85·7904424	19·4517765	·0001358696
7361	17.433	54184321	398850786881	85·7962703	19·4526575	·0001358511
7362	$2.3^2.409$	54199044	399012361928	85·8020979	19·4535383	·0001358327
7363	37.199	54213769	399175981147	85·8079251	19·4544191	·0001358142
7364	$2^2.7.263$	54228496	399338644544	85·8137518	19·4552998	·0001357958
7365	3.5.491	54243225	399501352125	85·8195782	19·4561804	·0001357773
7366	2.29.127	54257956	399664103896	85·8254042	19·4570609	·0001357589
7367	53.139	54272689	399826899863	85·8312298	19·4579414	·0001357405
7368	$2^3.3.307$	54287424	399989740032	85·8370550	19·4588217	·0001357220
7369	.....	54302161	400152624409	85·8428797	19·4597020	·0001357036
7370	2.5.11.67	54316900	400315553000	85·8487041	19·4605822	·0001356852
7371	$3^4.7.13$	54331641	400478525811	85·8545281	19·4614624	·0001356668
7372	$2^2.19.97$	54346384	400641542848	85·8603517	19·4623424	·0001356484
7373	73.101	54361129	400804604117	85·8661749	19·4632224	·0001356300
7374	2.3.1229	54375876	400967709624	85·8719977	19·4641023	·0001356116
7375	$5^3.59$	54390625	401130859375	85·8778201	19·4649821	·0001355932
7376	$2^4.461$	54405376	401294053376	85·8836422	19·4658618	·0001355748
7377	3.2459	54420129	401457291633	85·8894638	19·4667415	·0001355565
7378	2.7.17.31	54434884	401620574152	85·8952851	19·4676210	·0001355381
7379	47.157	54449641	401783900939	85·9011059	19·4685005	·0001355197

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7380	$2^2.3^2.5.41$	54464400	401947272000	85·9069264	19·4693799	·0001355014
7381	$11^2.61$	54479161	402110687341	85·9127464	19·4702593	·0001354830
7382	2.3691	54493924	402274146968	85·9185661	19·4711385	·0001354646
7383	3.23.107	54508689	402437650887	85·9243853	19·4720177	·0001354463
7384	$2^3.13.71$	54523456	402601199104	85·9302042	19·4728968	·0001354280
7385	5.7.211	54538225	402764791625	85·9360227	19·4737758	·0001354096
7386	2.3.1231	54552996	402928428456	85·9418408	19·4746547	·0001353913
7387	83.89	54567769	403092109603	85·9476585	19·4755336	·0001353730
7388	$2^2.1847$	54582544	403255835072	85·9534758	19·4764124	·0001353546
7389	$3^2.821$	54597321	403419604869	85·9592927	19·4772911	·0001353363
7390	2.5.739	54612100	403583419000	85·9651092	19·4781697	·0001353180
7391	19.389	54626881	403747277471	85·9709253	19·4790482	·0001352997
7392	$2^3.3.7.11$	54641664	403911180288	85·9767410	19·4799267	·0001352814
7393	.....	54656449	404075127457	85·9825564	19·4808051	·0001352631
7394	2.3697	54671236	404239118984	85·9883713	19·4816834	·0001352448
7395	3.5.17.29	54686025	404403154875	85·9941858	19·4825617	·0001352265
7396	$2^2.43^2$	54700816	404567235136	86·0000000	19·4834398	·0001352082
7397	13.569	54715609	404731359773	86·0058138	19·4843179	·0001351899
7398	$2.3^3.137$	54730404	404895528792	86·0116271	19·4851959	·0001351717
7399	$7^2.151$	54745201	405059742199	86·0174401	19·4860738	·0001351534
7400	$2^3.5^2.37$	54760000	405224000000	86·0232527	19·4869516	·0001351351
7401	3.2467	54774801	405388302201	86·0290648	19·4878293	·0001351169
7402	2.3701	54789604	405552648808	86·0348766	19·4887070	·0001350986
7403	11.673	54804409	405717039827	86·0406880	19·4895846	·0001350804
7404	$2^2.3.617$	54819216	405881475264	86·0464990	19·4904621	·0001350621
7405	5.1481	54834025	406045955125	86·0523097	19·4913395	·0001350439
7406	$2.7.23^2$	54848836	406210479416	86·0581199	19·4922169	·0001350257
7407	$3^2.823$	54863649	406375048143	86·0639297	19·4930942	·0001350074
7408	$2^4.463$	54878464	406539661312	86·0697392	19·4939714	·0001359892
7409	31.239	54893281	406704318929	86·0755482	19·4948485	·0001359710
7410	2.3.5.13.19	54908100	406869021000	86·0813568	19·4957255	·0001349528
7411	.....	54922921	407033767531	86·0871651	19·4966025	·0001349346
7412	$2^2.17.109$	54937744	407198558528	86·0929730	19·4974793	·0001349164
7413	3.7.353	54952569	407363393997	86·0987805	19·4983561	·0001348982
7414	2.11.337	54967396	407528273944	86·1045875	19·4992328	·0001348800
7415	5.1483	54982225	407693198375	86·1103942	19·5001095	·0001348618
7416	$2^3.3^2.103$	54997056	407858167296	86·1162006	19·5009860	·0001348436
7417	.....	55011889	408023180713	86·1220065	19·5018625	·0001348254
7418	2.3709	55026724	408188238632	86·1278120	19·5027390	·0001348072
7419	3.2473	55041561	408353341059	86·1336171	19·5036153	·0001347891
7420	$2^2.5.7.53$	55056400	408518488000	86·1394219	19·5044916	·0001347709
7421	41.181	55071241	408683679461	86·1452262	19·5053677	·0001347527
7422	2.3.1237	55086084	408848915448	86·1510302	19·5062438	·0001347346
7423	13.571	55100929	409014195967	86·1568337	19·5071199	·0001347164
7424	$2^6.29$	55115776	409179521024	86·1626369	19·5079958	·0001346983
7425	$3^3.5^2.11$	55130625	409344890625	86·1684397	19·5088717	·0001346801
7426	2.47.79	55145476	409510304776	86·1742421	19·5097474	·0001346620
7427	7.1061	55160329	409675763483	86·1800441	19·5106231	·0001346439
7428	$2^2.3.619$	55175184	409841266752	86·1858457	19·5114988	·0001346257
7429	17.19.23	55190041	410006814589	86·1916469	19·5123743	·0001346076
7430	2.5.743	55204900	410172407000	86·1974477	19·5132498	·0001345895
7431	3.2477	55219761	410338043991	86·2032482	19·5141251	·0001345714
7432	$2^3.929$	55234624	410503725568	86·2090482	19·5150005	·0001345533
7433	.....	55249489	410669451737	86·2148479	19·5158757	·0001345352
7434	$2.3^2.7.59$	55264356	410835223504	86·2206472	19·5167509	·0001345171
7435	5.1487	55279225	411001037875	86·2264461	19·5176259	·0001344990
7436	$2^2.13.143$	55294096	411166897856	86·2322445	19·5185009	·0001344809
7437	3.37.67	55308969	411332802453	86·2380426	19·5193759	·0001344628
7438	2.3719	55323844	411498751672	86·2438404	19·5202507	·0001344447
7439	43.173	55338721	411664745519	86·2496377	19·5211255	·0001344267

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7440	$2^4.3.5.31$	55353600	411830784000	86·2554346	19·5220001	·0001344086
7441	7.1063	55368481	411996867121	86·2612311	19·5228748	·0001343965
7442	2.61^2	55383364	412162994888	86·2670273	19·5237493	·0001343725
7443	$3^2.827$	55398249	412329167307	86·2728231	19·5246237	·0001343544
7444	$2^2.1861$	55413136	412495384384	86·2786184	19·5254981	·0001343364
7445	5.1489	55428025	412661646125	86·2844134	19·5263724	·0001343183
7446	2.3.17.73	55442916	412827952536	86·2902080	19·5272466	·0001343003
7447	11.677	55457809	412994303623	86·2960022	19·5281207	·0001342823
7448	$2^3.7^2.19$	55472704	413160699392	86·3017961	19·5289948	·0001342642
7449	3.13.191	55487601	413327139849	86·3075895	19·5298687	·0001342462
7450	$2.5^2.149$	55502500	413493625000	86·3133825	19·5307426	·0001342282
7451	.....	55517401	413660154851	86·3191752	19·5316165	·0001342102
7452	$2^2.3^4.23$	55532304	413826729408	86·3249674	19·5324902	·0001341922
7453	29.257	55547209	413993348677	86·3307593	19·5333639	·0001341742
7454	2.3727	55562116	414160012664	86·3365508	19·5342374	·0001341562
7455	3.5.7.71	55577025	414326721375	86·3423419	19·5351109	·0001341382
7456	$2^5.233$	55591939	414493474816	86·3481326	19·5359844	·0001341202
7457	.....	55606849	414660272993	86·3539229	19·5368577	·0001341022
7458	2.3.11.113	55621764	414827115912	86·3597128	19·5377310	·0001340842
7459	.....	55636681	414994003579	86·3655024	19·5386042	·0001340662
7460	$2^2.5.373$	55651600	415160936000	86·3712915	19·5394773	·0001340483
7461	$3^2.829$	55666521	415327913181	86·3770803	19·5403503	·0001340303
7462	2.7.13.41	55681444	415494935128	86·3828687	19·5412233	·0001340123
7463	17.439	55696369	415662001847	86·3886567	19·5420961	·0001339944
7464	$2^3.3.311$	55711296	415829113344	86·3944443	19·5429690	·0001339764
7465	5.1493	55726225	415996269625	86·4002315	19·5438417	·0001339585
7466	2.3733	55741156	416163470696	86·4060183	19·5447144	·0001339405
7467	3.19.131	55756089	416330716563	86·4118048	19·5455869	·0001339226
7468	$2^2.1867$	55771024	416498007232	86·4175908	19·5464594	·0001339047
7469	7.11.97	55785961	416665342709	86·4233765	19·5473319	·0001338867
7470	$2.3^2.5.83$	55800900	416832723000	86·4291617	19·5482042	·0001338688
7471	31.241	55815841	417000148111	86·4349466	19·5490765	·0001338509
7472	$2^4.467$	55830784	417167618048	86·4407312	19·5499487	·0001338330
7473	3.47.53	55845729	417335132817	86·4465153	19·5508208	·0001338151
7474	2.37.101	55860676	417502692424	86·4522990	19·5516928	·0001337972
7475	$5^2.13.23$	55875625	417670296875	86·4580823	19·5525648	·0001337793
7476	$2^2.3.7.89$	55890576	417837946176	86·4638653	19·5534366	·0001337614
7477	.....	55905529	418005640333	86·4696479	19·5543084	·0001337435
7478	2.3739	55920484	418173379352	86·4754300	19·5551801	·0001337256
7479	$3^3.277$	55935441	418341163239	86·4812118	19·5560518	·0001337077
7480	$2^3.5.11.17$	55950400	418508992000	86·4869933	19·5569233	·0001336898
7481	.....	55965361	418676865641	86·4927743	19·5577948	·0001336720
7482	2.3.29.43	55980324	418844784168	86·4985549	19·5586662	·0001336541
7483	7.1069	55995289	419012747587	86·5043352	19·5595375	·0001336362
7484	$2^2.1871$	56010256	419180755904	86·5101150	19·5604088	·0001336184
7485	3.5.499	56025225	419348809125	86·5158945	19·5612799	·0001336005
7486	2.19.197	56040196	419516907256	86·5216736	19·5621510	·0001335827
7487	.....	56055169	419685050303	86·5274523	19·5630221	·0001335648
7488	$2^6.3^2.13$	56070144	419853238272	86·5332306	19·5638930	·0001335470
7489	.....	56085121	420021471169	86·5390086	19·5647638	·0001335292
7490	2.5.7.107	56100100	420189749000	86·5447861	19·5656346	·0001335113
7491	3.11.227	56115081	420358071771	86·5505633	19·5665053	·0001334935
7492	$2^2.1873$	56130064	420526439488	86·5563401	19·5673759	·0001334757
7493	59.127	56145049	420694852157	86·5621165	19·5682465	·0001334579
7494	2.3.1249	56160036	420863309784	86·5678925	19·5691169	·0001334401
7495	5.1499	56175025	421031812375	86·5736681	19·5699873	·0001334223
7496	$2^3.937$	56190016	421200359936	86·5794433	19·5708577	·0001334045
7497	$3^2.7^2.17$	56205009	421368952473	86·5852181	19·5717279	·0001333867
7498	2.23.163	56220004	421537589992	86·5909926	19·5725981	·0001333689
7499	.....	56235001	421706272499	86·5967667	19·5734682	·0001333511

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7500	$2^2.3.5^4$	56250000	421875000000	86·6025403	19·5743382	·0001333333
7501	13.577	56265001	422043772501	86·6083137	19·5752081	·0001333156
7502	$2.11^2.31$	56280004	422212590008	86·6140866	19·5760780	·0001332978
7503	3.41.61	56295009	422381452527	86·6198591	19·5769477	·0001332800
7504	$2^4.7.67$	56310016	422550360064	86·6256313	19·5778175	·0001332623
7505	5.19.79	56325025	422719312625	86·6314031	19·5786871	·0001332445
7506	$2.3^2.139$	56340036	422888310216	86·6371745	19·5795566	·0001332268
7507	.....	56355049	423057352843	86·6429455	19·5804261	·0001332090
7508	$2^2.1877$	56370064	423226440512	86·6487161	19·5812954	·0001331913
7509	3.2503	56385081	423395573229	86·6544863	19·5821648	·0001331735
7510	2.5.751	56400100	423564751000	86·6602561	19·5830340	·0001331558
7511	7.29.37	56415121	423733973831	86·6660256	19·5839031	·0001331381
7512	$2^3.3.313$	56430144	423903241728	86·6717947	19·5847722	·0001331203
7513	11.683	56445169	424072554697	86·6775634	19·5856412	·0001331026
7514	2.13.17²	56460196	424241912744	86·6833317	19·5865102	·0001330849
7515	$3^2.5.167$	56475225	424411315875	86·6890997	19·5873790	·0001330672
7516	$2^2.1879$	56490256	424580764096	86·6948672	19·5882478	·0001330495
7517	.....	56505289	424750257413	86·7006343	19·5891165	·0001330318
7518	2.3.7.179	56520324	424919795832	86·7064011	19·5899851	·0001330141
7519	73.103	56535361	425089379359	86·7121675	19·5908537	·0001329963
7520	$2^3.5.47$	56550400	425259008000	86·7179335	19·5917221	·0001329787
7521	3.23.109	56565441	425428681761	86·7236991	19·5925905	·0001329610
7522	2.3761	56580484	425598400648	86·7294644	19·5934588	·0001329434
7523	.....	56595529	425768164667	86·7352293	19·5943271	·0001329257
7524	$2^2.3^2.11.19$	56610576	425937973824	86·7409938	19·5951952	·0001329080
7525	$5^2.7.43$	56625625	426107828125	86·7467579	19·5960633	·0001328904
7526	2.53.71	56640676	426277727576	86·7525216	19·5969313	·0001328727
7527	3.13.193	56655729	426447672183	86·7582849	19·5977993	·0001328551
7528	$2^3.941$	56670784	426617661952	86·7640478	19·5986671	·0001328374
7529	.....	56685841	426787696889	86·7698104	19·5995349	·0001328198
7530	2.3.5.251	56700900	426957777000	86·7755726	19·6004026	·0001328021
7531	17.443	56715961	427127902291	86·7813344	19·6012702	·0001327845
7532	$2^2.7.269$	56731024	427298072768	86·7870958	19·6021377	·0001327669
7533	$3^5.31$	56746089	427468288437	86·7928568	19·6030052	·0001327492
7534	2.3767	56761156	427638549304	86·7986175	19·6038726	·0001327316
7535	5.11.137	56776225	427808855375	86·8043777	19·6047399	·0001327140
7536	$2^4.3.157$	56791296	427979206656	86·8101376	19·6056072	·0001326964
7537	.....	56806369	428149603153	86·8158971	19·6064743	·0001326788
7538	2.3769	56821444	428320044872	86·8216562	19·6073414	·0001326612
7539	3.7.359	56836521	428490531819	86·8274150	19·6082084	·0001326436
7540	$2^2.5.13.29$	56851600	428661064000	86·8331733	19·6090753	·0001326260
7541	.....	56866681	428831641421	86·8389313	19·6099422	·0001326084
7542	$2.3^2.419$	56881764	429002264088	86·8446890	19·6108089	·0001325908
7543	19.397	56896849	429172932007	86·8504462	19·6116756	·0001325732
7544	$2^3.23.41$	56911936	429343645184	86·8562030	19·6125423	·0001325557
7545	3.5.503	56927025	429514403625	86·8619594	19·6134088	·0001325381
7546	$2.7^3.11$	56942116	429685207336	86·8677155	19·6142753	·0001325205
7547	.....	56957209	429856056323	86·8734712	19·6151417	·0001325030
7548	$2^2.3.17.37$	56972304	430026950592	86·8792265	19·6160080	·0001324854
7549	.....	56987401	430197890149	86·8849814	19·6168742	·0001324679
7550	$2.5^2.151$	57002500	430368875000	86·8907360	19·6177404	·0001324503
7551	$3^2.839$	57017601	430539905151	86·8964901	19·6186065	·0001324328
7552	$2^7.59$	57032704	430710980608	86·9022439	19·6194725	·0001324153
7553	7.13.83	57047809	430882101377	86·9079973	19·6203384	·0001323977
7554	2.3.1259	57062916	431053267464	86·9137503	19·6212043	·0001323802
7555	5.1511	57078025	431224478875	86·9195030	19·6220701	·0001323627
7556	$2^2.1889$	57093136	431395735616	86·9252552	19·6229358	·0001323452
7557	3.11.229	57108249	431567037693	86·9310071	19·6238014	·0001323276
7558	2.3779	57123364	431738385112	86·9367586	19·6246669	·0001323101
7559	.....	57138481	431909777879	86·9425097	19·6255324	·0001322926

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7560	$2^3.3^3.5.7$	57153600	432081216000	86·9482605	19·6263979	·0001322751
7561	.....	57168721	432252699481	86·9540108	19·6272632	·0001322576
7562	2.19.199	57183844	432424238328	86·9597608	19·6281284	·0001322401
7563	3.2521	57198969	432595802547	86·9655104	19·6289936	·0001322223
7564	$2^2.31.61$	57214096	432767422144	86·9712596	19·6298586	·0001322052
7565	5.17.89	57229225	432939087125	86·9770085	19·6307237	·0001321877
7566	2.3.13.97	57244356	433110797496	86·9827569	19·6315886	·0001321702
7567	7.23.47	57259489	433282553263	86·9885050	19·6324534	·0001321528
7568	$2^4.11.43$	57274624	433454354432	86·9942527	19·6333182	·0001321353
7569	$3^2.29^2$	57289761	433626201009	87·0000000	19·6341830	·0001321178
7570	2.5.757	57304900	433798093000	87·0057469	19·6350476	·0001321004
7571	67.113	57320041	433970030411	87·0114935	19·6359122	·0001320829
7572	$2^2.3.631$	57335184	434142013248	87·0172397	19·6367767	·0001320655
7573	.....	57350329	434314041517	87·0229855	19·6376411	·0001320481
7574	2.7.541	57365476	434486115224	87·0287309	19·6385054	·0001320306
7575	$3.5^2.101$	57380625	434658234375	87·0344759	19·6393697	·0001320132
7576	23.947	57395776	434830398976	87·0402206	19·6402339	·0001319958
7577	.....	57410929	435002609033	87·0459649	19·6410980	·0001319784
7578	$2.3^2.421$	57426084	435174864552	87·0517088	19·6419620	·0001319609
7579	11.13.53	57441241	435347165539	87·0574523	19·6428259	·0001319435
7580	$2^2.5.379$	57456400	435519512000	87·0631955	19·6436898	·0001319261
7581	$3.7.19^2$	57471561	435691903941	87·0689382	19·6445536	·0001319087
7582	2.17.223	57486724	435864341368	87·0746806	19·6454173	·0001318913
7583	.....	57501889	436036824287	87·0804226	19·6462810	·0001318739
7584	$2^5.3.79$	57517056	436209352704	87·0861643	19·6471446	·0001319565
7585	5.37.41	57532225	436381926625	87·0919055	19·6480081	·0001318392
7586	2.3793	57547396	436554546056	87·0976464	19·6488715	·0001318218
7587	$3^3.281$	57562569	436727211003	87·1033868	19·6497349	·0001318044
7588	$2^2.7.271$	57577744	436899921472	87·1091270	19·6505981	·0001317870
7589	.....	57592921	437072677469	87·1148667	19·6514613	·0001317697
7590	2.3.5.11.23	57608100	437245479000	87·1206061	19·6523244	·0001317523
7591	.....	57623281	437418326071	87·1263450	19·6531875	·0001317349
7592	$2^3.13.73$	57638464	437591218688	87·1320836	19·6540504	·0001317176
7593	3.2531	57653649	437764156857	87·1378219	19·6549133	·0001317003
7594	2.3797	57668836	437937140584	87·1435597	19·6557761	·0001316829
7595	$5.7^2.31$	57684025	438110169875	87·1492972	19·6566389	·0001316656
7596	$2^2.3^2.211$	57699216	438283244736	87·1550343	19·6575015	·0001316482
7597	71.107	57714409	438456365173	87·1607760	19·6583641	·0001316309
7598	2.29.131	57729604	438629531192	87·1665073	19·6592266	·0001316136
7599	3.17.149	57744801	438802742799	87·1722433	19·6600891	·0001315963
7600	$2^4.5^2.19$	57760000	438976000000	87·1779789	19·6609514	·0001315789
7601	11.691	57775201	439149302801	87·1837141	19·6618137	·0001315616
7602	2.3.7.181	57790404	439322651208	87·1894489	19·6626759	·0001315443
7603	.....	57805809	439496045227	87·1951834	19·6635381	·0001315270
7604	$2^2.1901$	57820816	439669484864	87·2009174	19·6644001	·0001315097
7605	$3^2.5.13^2$	57836025	439842970125	87·2066511	19·6652621	·0001314924
7606	2.3803	57851236	440016501016	87·2123845	19·6661240	·0001314752
7607	.....	57866449	440190077543	87·2181174	19·6669858	·0001314579
7608	$2^3.3.317$	57881664	440363699712	87·2238500	19·6678476	·0001314406
7609	7.1087	57896881	440537367529	87·2295822	19·6687093	·0001314233
7610	2.5.761	57912100	440711081000	87·2353140	19·6695709	·0001314060
7611	3.43.59	57927321	440884840131	87·2410454	19·6704324	·0001313888
7612	$2^2.11.173$	57942544	441058644928	87·2467765	19·6712939	·0001313715
7613	23.331	57957769	441232495397	87·2525071	19·6721552	·0001313543
7614	$2.3^4.47$	57972996	441406391544	87·2582374	19·6730165	·0001313370
7615	5.1523	57988225	441580333375	87·2639674	19·6738778	·0001313198
7616	$2^6.7.17$	58003456	441754320896	87·2696970	19·6747390	·0001313025
7617	3.2539	58018689	441928354113	87·2754261	19·6756000	·0001312853
7618	2.13.293	58033924	442102433032	87·2811550	19·6764610	·0001312681
7619	19.401	58049161	442276557659	87·2868834	19·6773219	·0001312508

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7620	$2^2.3.5.127$	58064400	442450728000	87·2926114	19·6781828	·0001312336
7621	.....	58079641	442624944061	87·2983391	19·6790436	·0001312164
7622	2.37.103	58094884	442799205848	87·3040664	19·6799042	·0001311992
7623	$3^2.7.11^2$	58110129	442973513367	87·3097933	19·6807649	·0001311819
7624	$2^3.953$	58125376	443147866624	87·3155198	19·6816254	·0001311647
7625	$5^3.61$	58140625	443322265625	87·3212460	19·6824859	·0001311475
7626	2.3.31.41	58155876	443496710376	87·3269718	19·6833463	·0001311303
7627	29.263	58171129	443671200883	87·3326972	19·6842066	·0001311132
7628	$2^2.1907$	58186384	443845737152	87·3384223	19·6850669	·0001310960
7629	3.2543	58201641	444020319189	87·3441469	19·6859271	·0001310788
7630	2.5.7.109	58216900	444194947000	87·3498712	19·6867872	·0001310616
7631	13.587	58232161	444369620591	87·3555951	19·6876472	·0001310444
7632	$2^4.3^2.53$	58247424	444544339968	87·3613187	19·6885071	·0001310273
7633	17.449	58262689	444719105137	87·3670418	19·6893670	·0001310101
7634	2.11.347	58277956	444893916104	87·3727646	19·6902268	·0001309929
7635	3.5.509	58293225	445068772875	87·3784870	19·6910866	·0001309758
7636	$2^2.23.83$	58308496	445243675456	87·3842091	19·6919462	·0001309586
7637	7.1091	58323769	445418623853	87·3899307	19·6928058	·0001309415
7638	2.3.1 9.67	58339044	445593618072	87·3956520	19·6936653	·0001309243
7639	.....	58354321	445768658119	87·4013730	19·6945247	·0001309072
7640	$2^3.5.191$	58369600	445943744000	87·4070935	19·6953840	·0001308901
7641	$3^3.283$	58384881	446118875721	87·4128137	19·6962433	·0001308729
7642	2.3821	58400164	446294053288	87·4185335	19·6971025	·0001308558
7643	.....	58415449	446469276707	87·4242529	19·6979616	·0001308387
7644	$2^2.3.7^2.13$	58430736	446644545984	87·4299719	19·6988207	·0001308216
7645	5.11.139	58446025	446819861125	87·4356906	19·6996796	·0001308044
7646	2.3823	58461316	446995222136	87·4414089	19·7005385	·0001307873
7647	3.2549	58476609	447170629023	87·4471268	19·7013973	·0001307702
7648	$2^5.239$	58491904	447346081792	87·4528444	19·7022561	·0001307531
7649	.....	58507201	447521580449	87·4585616	19·7031148	·0001307360
7650	$2.3^2.5^2.17$	58522500	447697125000	87·4642784	19·7039734	·0001307190
7651	7.1093	58537801	447872715451	87·4699948	19·7048319	·0001307019
7652	$2^2.1913$	58553104	448048351808	87·4757109	19·7056903	·0001306848
7653	3.2551	58568409	448224034077	87·4814266	19·7065487	·0001306677
7654	2.43.89	58583716	448399762264	87·4871419	19·7074070	·0001306506
7655	5.1531	58599025	448575536375	87·4928568	19·7082653	·0001306336
7656	$2^3.3.11.29$	58614336	448751356416	87·4985714	19·7091234	·0001306165
7657	13.19.31	58629649	448927222393	87·5042856	19·7099815	·0001305995
7658	2.7.547	58644964	449103134312	87·5099994	19·7108395	·0001305824
7659	$3^2.23.37$	58660281	449279092179	87·5157129	19·7116974	·0001305653
7660	$2^2.5.383$	58675600	449455096000	87·5214259	19·7125552	·0001305483
7661	47.163	58690921	449631145781	87·5271386	19·7134130	·0001305313
7662	2.3.1277	58706244	449807241528	87·5328509	19·7142707	·0001305142
7663	79.97	58721569	449983383247	87·5385629	19·7151283	·0001304972
7664	$2^4.479$	58736896	450159570944	87·5442745	19·7159859	·0001304802
7665	3.5.7.73	58752225	450335804625	87·5499857	19·7168434	·0001304631
7666	2.3833	58767556	450512084296	87·5556965	19·7177008	·0001304461
7667	11.17.41	58782889	450688409963	87·5614070	19·7185581	·0001304291
7668	$2^2.3.9.71$	58798224	450864781632	87·5671171	19·7194153	·0001304121
7669	.....	58813561	451041199309	87·5728268	19·7202725	·0001303951
7670	2.5.13.59	58828900	451217663000	87·5785362	19·7211296	·0001303781
7671	3.2557	58844241	451394172711	87·5842451	19·7219867	·0001303611
7672	$2^3.7.137$	58859584	451570728448	87·5899537	19·7228436	·0001303441
7673	.....	58874929	451747330217	87·5956620	19·7237005	·0001303271
7674	2.3.1279	58890276	451923978024	87·6013698	19·7245573	·0001303101
7675	$5^2.307$	58905625	452100671875	87·6070773	19·7254140	·0001302932
7676	$2^2.19.101$	58920976	452277411776	87·6127844	19·7262707	·0001302762
7677	$3^2.853$	58936329	452454197733	87·6184912	19·7271272	·0001302592
7678	2.11.349	58951684	452631029752	87·6241976	19·7279837	·0001302422
7679	7.1097	58967041	452807907839	87·6299036	19·7288402	·0001302253

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals
7680	$2^9.3.5$	58982400	452984832000	87·6356092	19·7296965	·0001302083
7681	.....	58997761	453161802241	87·6413145	19·7305529	·0001301914
7682	2.23.167	59013124	453338818568	87·6470193	19·7314091	·0001301744
7683	3.13.197	59028489	453515880987	87·6527239	19·7322652	·0001301575
7684	$2^2.17.113$	59043856	453692989504	87·6584280	19·7331213	·0001301406
7685	5.29.53	59059225	453870144125	87·6641318	19·7339773	·0001301236
7686	$2.3^3.7.61$	59074596	454047344856	87·6698352	19·7348332	·0001301067
7687	.....	59089969	454224591703	87·6755381	19·7356891	·0001300898
7688	$2^3.31^2$	59105344	454401884672	87·6812409	19·7365448	·0001300728
7689	3.11.233	59120721	454579223769	87·6869431	19·7374005	·0001300559
7690	2.5.769	59136100	454756609000	87·6926451	19·7382561	·0001300390
7691	.....	59151481	454934040371	87·6983466	19·7391117	·0001300221
7692	$2^2.3.641$	59166864	455111517888	87·7040478	19·7399672	·0001300052
7693	$7^3.157$	59182249	455289041557	87·7097486	19·7408226	·0001299883
7694	2.3847	59197636	455466611384	87·7154490	19·7416779	·0001299714
7695	$3^4.5.19$	59213025	455644227375	87·7211491	19·7425331	·0001299545
7696	$2^4.13.37$	59228416	455821889536	87·7268488	19·7433883	·0001299376
7697	43.179	59243809	455999597873	87·7325481	19·7442434	·0001299207
7698	2.3.1283	59259204	456177352392	87·7382471	19·7450984	·0001299039
7699	.....	59274601	456355153099	87·7439456	19·7459534	·0001298870
7700	$2^2.5^2.7.11$	59290000	456533000000	87·7496439	19·7468082	·0001298701
7701	3.17.151	59305401	456710893101	87·7553417	19·7476630	·0001298533
7702	2.3851	59320804	456888832408	87·7610392	19·7485177	·0001298364
7703	.....	59336209	457066817927	87·7667363	19·7493724	·0001298195
7704	$2^3.3^2.107$	59351616	457244849664	87·7724330	19·7502270	·0001298027
7705	5.23.67	59367025	457422927625	87·7781294	19·7510815	·0001297859
7706	2.3853	59382436	457601051816	87·7838254	19·7519359	·0001297690
7707	3.7.367	59397849	457779222243	87·7895210	19·4527903	·0001297522
7708	$2^2.41.47$	59413264	457957438912	87·7952163	19·7536446	·0001297353
7709	13.593	59428681	458135701829	87·8009112	19·7544988	·0001297185
7710	2.3.5.257	59444100	458314011000	87·8066057	19·7553529	·0001297017
7711	11.701	59459521	458492366431	87·8122999	19·7562070	·0001296849
7712	$2^5.241$	59474944	458670768128	87·8179936	19·7570610	·0001296680
7713	$3^3.857$	59490369	458849216097	87·8236870	19·7579149	·0001296512
7714	2.7.19.29	59505796	459027710344	87·8293801	19·7587687	·0001296344
7715	5.1543	59521225	459206250875	87·8350727	19·7596225	·0001296176
7716	$2^2.3.643$	59536656	459384837696	87·8407650	19·7604762	·0001296008
7717	.....	59552089	459563470813	87·8464570	19·7613298	·0001295840
7718	2.17.227	59567524	459742150232	87·8521486	19·7621834	·0001295672
7719	3.31.83	59582961	459920875959	87·8578398	19·7630368	·0001295505
7720	$2^3.5.193$	59598400	460099648000	87·8635306	19·7638902	·0001295337
7721	7.1103	59613841	460278466361	87·8692210	19·7647436	·0001295169
7722	$2.3^3.11.13$	59629284	460457331048	87·8749111	19·7655968	·0001295001
7723	.....	59644729	460636242067	87·8806008	19·7664500	·0001294833
7724	$2^2.1931$	59660176	460815199424	87·8862902	19·7673031	·0001294666
7725	$3.5^2.103$	59675625	460994203125	87·8919792	19·7681562	·0001294498
7726	2.3863	59691076	461173253176	87·8976678	19·7690091	·0001294331
7727	.....	59706529	461352349583	87·9033560	19·7698620	·0001294163
7728	$2^4.3.7.23$	59721984	461531492352	87·9090439	19·7707148	·0001293996
7729	59.131	59737441	461710681489	87·9147314	19·7715676	·0001293828
7730	2.5.773	59752900	461889917000	87·9204186	19·7724202	·0001293661
7731	$3^2.859$	59768361	462069198891	87·9261053	19·7732728	·0001293494
7732	$2^2.1933$	59783824	462248527168	87·9317918	19·7741253	·0001293326
7733	11.19.37	59799289	462427901837	87·9374778	19·7749778	·0001293159
7734	2.3.1289	59814756	462607322904	87·9431635	19·7758301	·0001292992
7735	5.7.13.17	59830225	462786790375	87·9488488	19·7766824	·0001292825
7736	$2^3.967$	59845696	462966304256	87·9545337	19·7775346	·0001292658
7737	3.2579	59861169	463145864553	87·9602183	19·7783868	·0001292491
7738	2.53.73	59876644	463325471272	87·9659025	19·7792389	·0001292324
7739	71.109	59892121	463505124419	87·9715863	19·7800909	·0001292157

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7740	$2^2.3^2.5.43$	59907600	463684824000	87·9772698	19·7809428	·0001291990
7741	.....	59923081	463864570021	87·9829529	19·7817947	·0001291823
7742	$2.7^2.79$	59938564	464044362488	87·9886357	19·7826465	·0001291656
7743	3.29.89	59954049	464224201407	87·9943180	19·7834982	·0001291489
7744	$2^6.11^2$	59969536	464404086784	88·0000000	19·7843498	·0001291322
7745	5.1549	59985025	464584018625	88·0056816	19·7852014	·0001291156
7746	2.3.1291	60000516	464763996936	88·0113629	19·7860528	·0001290989
7747	61.127	60016009	464944021723	88·0170438	19·7869043	·0001290822
7748	$2^2.13.149$	60031504	465124092992	88·0227243	19·7877556	·0001290656
7749	$3^2.7.41$	60047001	465304210749	88·0284045	19·7886069	·0001290489
7750	$2.5^3.31$	60062500	465484375000	88·0340843	19·7894581	·0001290323
7751	23.337	60078001	465664585751	88·0397638	19·7903092	·0001290156
7752	$2^3.3.17.19$	60093504	465844843008	88·0454429	19·7911602	·0001289990
7753	.....	60109009	466025146777	88·0511216	19·7920112	·0001289823
7754	2.3877	60124516	466205497064	88·0567999	19·7928621	·0001289657
7755	3.5.11.47	60140025	466385893875	88·0624778	19·7937129	·0001289491
7756	$2^2.7.277$	60155536	466566337216	88·0681554	19·7945637	·0001289324
7757	.....	60171049	466746827093	88·0738327	19·7954144	·0001289158
7758	$2.3^2.431$	60186564	466927363512	88·0795095	19·7962650	·0001288992
7759	.....	60202081	467107946479	88·0851861	19·7971155	·0001288826
7760	$2^4.5.97$	60217600	467288576000	88·0908622	19·7979660	·0001288660
7761	3.13.199	60233121	467469252081	88·0965380	19·7988164	·0001288494
7762	2.3881	60248644	467649974728	88·1022134	19·7996667	·0001288328
7763	7.1109	60264169	467830743947	88·1078884	19·8005169	·0001288162
7764	$2^2.3.647$	60279696	468011559744	88·1135631	19·8013671	·0001287996
7765	5.1553	60295225	468192422125	88·1192374	19·8022172	·0001287830
7766	2.11.353	60310756	468373331096	88·1249114	19·8030672	·0001287664
7767	$3^2.863$	60326289	468554286663	88·1305849	19·8039172	·0001287498
7768	$2^3.971$	60341824	468735288832	88·1362581	19·8047671	·0001287333
7769	17.457	60357361	468916337609	88·1419310	19·8056169	·0001287167
7770	2.3.5.7.37	60372900	469097433000	88·1476034	19·8064666	·0001287001
7771	19.409	60388441	469278575011	88·1532756	19·8073163	·0001286836
7772	$2^2.29.67$	60403984	469459763648	88·1589473	19·8081659	·0001286670
7773	3.2591	60419529	469640999917	88·1646187	19·8090154	·0001286505
7774	$2.13^2.23$	60435076	469822280824	88·1702897	19·8098648	·0001286339
7775	$5^2.311$	60450625	470003609375	88·1759604	19·8107142	·0001286174
7776	$2^5.3^5$	60466176	470184984576	88·1816307	19·8115634	·0001286008
7777	7.11.101	60481729	470366406433	88·1873006	19·8124127	·0001285843
7778	2.3889	60497284	470547874952	88·1929702	19·8132618	·0001285678
7779	3.2593	60512841	470729390139	88·1986394	19·8141109	·0001285512
7780	$2^2.5.389$	60528400	470910952000	88·2043082	19·8149599	·0001285347
7781	31.251	60543961	471092560541	88·2099767	19·8158089	·0001285182
7782	2.3.1297	60559524	471274215768	88·2156448	19·8166577	·0001285017
7783	43 181	60575089	471455917687	88·2213126	19·8175065	·0001284852
7784	$2^3.7.139$	60590656	471637666304	88·2269800	19·8183553	·0001284687
7785	$3^2.5.173$	60606225	471819461625	88·2326470	19·8192039	·0001284522
7786	2.17.229	60621796	472001303656	88·2383137	19·8200525	·0001284357
7787	13 599	60637369	472183192403	88·2439799	19·8209010	·0001284192
7788	$2^2.3.11.59$	60652944	472365127872	88·2496459	19·8217494	·0001284027
7789	.....	60668521	472547110069	88·2553114	19·8225978	·0001283862
7790	2.5.19.41	60684100	472729139000	88·2609766	19·8234460	·0001283697
7791	$3.7^2.53$	60699681	472911214671	88·2666415	19·8242942	·0001283532
7792	$2^4.487$	60715264	473093337088	88·2723059	19·8251424	·0001283368
7793	.....	60730849	473275506257	88·2779701	19·8259905	·0001283203
7794	$2.3^3.433$	60746436	473457722184	88·2836338	19·8268384	·0001283038
7795	3.5.13.41	60762025	473639984875	88·2892972	19·8276864	·0001282874
7796	$2^2.1949$	60777616	473822294336	88·2949602	19·8285342	·0001282709
7797	3.23.113	60793209	474004650573	88·3006228	19·8293820	·0001282545
7798	2.7.557	60808804	474187053592	88·3062851	19·8302297	·0001282380
7799	11.709	60824401	474369503399	88·3119471	19·8310773	·0001282216

Numb.	Factors.	Squares.	Cubes.	Sq. Root.	Cu. Roots.	Reciprocals.
7800	$2^3.3.5^2.13$	60840000	474552000000	88·3176086	19 8319248	·0001282051
7801	29.269	60855601	474734543401	88·3232698	19·8327723	·0001281887
7802	2.47.83	60871204	474917133608	88·3289307	19·8336197	·0001281723
7803	$3^3.17^2$	60886809	475099770627	88·3345912	19·8344671	·0001281558
7804	$2^2.1951$	60902416	475282454464	88·3402513	19·8353144	·0001281394
7805	5.7.223.	60918025	475465185125	88·3459110	19·8361615	·0001281230
7806	2.3.1301	60933636	475647962616	88·3515704	19·8370087	·0001281066
7807	37.211	60949249	475830786943	88·3572295	19·8378557	·0001280902
7808	97.61	60964864	476013658112	88·3628881	19·8387027	·0001280738
7809	3.19.137	60980481	476196576129	88·3685464	19·8395496	·0001280574
7810	2.5.11.71	60996100	476379541000	88·3742044	19·8403964	·0001280410
7811	73.107	61011721	476562552731	88·3798620	19·8412431	·0001280246
7812	$2^2.3^2.7.31$	61027344	476745611328	88·3855192	19·8420898	·0001280082
7813	13.601	61042969	476928716797	88·3911760	19·8429364	·0001279918
7814	2.3907	61058596	477111869144	88·3968325	19·8437830	·0001279754
7815	3.5.521	61074225	477295068375	88·4024886	19·8446294	·0001279591
7816	$2^3.977$	61089856	477478314496	88·4081444	19·8454759	·0001279427
7817	.....	61105489	477661607513	88·4137998	19·8463222	·0001279263
7818	2.3.1303	61121124	477844947432	88·4194549	19·8471684	·0001279100
7819	7.1117	61136761	478028334259	88·4251096	19·8480146	·0001278936
7820	$2^2.5.17.23$	61152400	478211768000	88·4307639	19·8488607	·0001278772
7821	$3^2.11.79$	61168041	478395248661	88·4364178	19·8497068	·0001278609
7822	2.3911	61183684	478578776248	88·4420714	19·8505527	·0001278445
7823	.....	61199329	478762350767	88·4477247	19·8513986	·0001278282
7824	$2^4.3.163$	61214976	478945972224	88·4533775	19·8522444	·0001278119
7825	$5^2.313$	61230625	479129640625	88·4590300	19·8530902	·0001277953
7826	2.7.13.43	61246276	479313355976	88·4646822	19·8539358	·0001277792
7827	3.2609	61261929	479497118283	88·4703340	19·8547814	·0001277629
7828	$2^2.19.103$	61277584	479680927552	88·4759854	19·8556269	·0001277466
7829	.....	61293241	479864783789	88·4816365	19·8564724	·0001277302
7830	$2.3^2.5.29$	61308900	480048687000	88·4872872	19·8573178	·0001277139
7831	41.191	61324561	480232637191	88·4929376	19·8581631	·0001276976
7832	$2^3.11.89$	61340224	480416634368	88·4985876	19·8590084	·0001276813
7833	3.7.373	61355889	480600678537	88·5042372	19·8598535	·0001276650
7834	2.3917	61371556	480784769704	88·5098865	19·8606986	·0001276487
7835	5.1567	61387225	480968907875	88·5155354	19·8615437	·0001276324
7836	$2^2.3.653$	61402896	481153093056	88·5211839	19·8623886	·0001276161
7837	17.461	61418569	481337325253	88·5268321	19·8632335	·00012759 8
7838	2.3919	61434244	481521604472	88·5324799	19·8640783	·0001275836
7839	$3^3.13.67$	61449921	481705930719	88·5381274	19·8649231	·0001275673
7840	$2^5.5.7^2$	61465600	481890304000	88·5437745	19·8657678	·0001275510
7841	.....	61481281	482074724321	88·5494212	19·8666124	·0001275348
7842	2.3.1307	61496964	482259191688	88·5550676	19·8674569	·0001275185
7843	11.23.31	61512649	482443706107	88·5607136	19·8683013	·0001275022
7844	$2^2.37.53$	61528336	482628267584	88·5663593	19·8691457	·0001274860
7845	3.5.523	61544025	482812876125	88·5720046	19·8699900	·0001274697
7846	2.3923	61559716	482997531736	88·5776496	19·8708343	·0001274535
7847	7.19.59	61575409	483182234423	88·5832941	19·8716784	·0001274372
7848	$2^3.3^2.109$	61591104	483366984192	88·5889384	19·8725225	·0001274210
7849	47.167	61606801	483551781049	88·5945822	19·8733666	·0001274048
7850	$2.5^2.157$	61622500	483736625000	88·6002257	19·8742105	·0001273885
7851	3.2617	61638201	483921516051	88·6058689	19·8750544	·0001273723
7852	$2^2.13.151$	61653904	484106454208	88·6115117	19·8758982	·0001273561
7853	.....	61669609	484291439477	88·6171541	19·8767419	·0001273399
7854	$2.3.7.11.17$	61685316	484476471864	88·6227962	19·8775856	·0001273237
7855	5.1571	61701025	484661551375	88·6284379	19·8784291	·0001273074
7856	$2^4.491$	61716736	484846678016	88·6340792	19·8792727	·0001272912
7857	$3^2.97$	61732449	485031851793	88·6397202	19·8801161	·0001272750
7858	2.3929	61748164	485217072712	88·6453609	19·8809595	·0001272588
7859	29.271	61763881	485402340779	88·6510011	19·8818028	·0001272427

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7860	$2^2.3.5.131$	61779600	485587656000	88·6566411	19·8826461	·0001272265
7861	7.1123	61795321	485773018381	88·6622806	19·8834892	·0001272103
7862	2.3931	61811044	485958427928	88·6679198	19·8843323	·0001271941
7863	3.2621	61826769	486143884647	88·6735586	19·8851754	·0001271779
7864	23.983	61842496	486329388544	88·6791971	19·8860183	·0001271617
7865	5.11^2 13	61858225	486514939625	88·6848352	19·8868612	·0001271456
7866	$2.3^2.19.23$	61873956	486700537896	88·6904730	19·8877040	·0001271294
7867	.....	61889689	486886183363	88·6961104	19·8885468	·0001271133
7868	$2^2.7.281$	61905424	487071876032	88·7017475	19·8893894	·0001270971
7869	3.43.61	61921161	487257615909	88·7073841	19·8902321	·0001270810
7870	2.5.787	61936900	487443403000	88·7130205	19·8910746	·0001270648
7871	17.463	61952641	487629237311	88·7186564	19·8919171	·0001270487
7872	$2^6.3.41$	61968384	487815118848	88·7242921	19·8927595	·0001270325
7873	.....	61984129	488001047617	88·7299273	19·8936018	·0001270164
7874	2.31.127	61999876	488187023624	88·7355622	19·8944440	·0001270002
7875	$3^2.5^3.7$	62015625	488373046875	88·7411967	19·8952861	·0001269841
7876	$2^2.11.179$	62031376	488559117376	88·7468309	19·8961282	·0001269680
7877	.....	62047129	488745235133	88·7524648	19·8969702	·0001269519
7878	2.3.13.101	62062884	488931400152	88·7580982	19·8978121	·0001269358
7879	.....	62078641	489117612439	88·7637313	19·8986540	·0001269197
7880	$2^3.5.197$	62094400	489303872000	88·7693641	19·8994958	·0001269036
7881	3.37.71	62110161	489490178841	88·7749965	19·9003375	·0001268875
7882	2.7.563	62125924	489676532968	88·7806285	19·9011792	·0001268714
7883	.....	62141689	489862934387	88·7862602	19·9020208	·0001268553
7884	$2^2.3^2.73$	62157456	490049383104	88·7918915	19·9028623	·0001268392
7885	5.19.83	62173225	490235879125	88·7975225	19·9037038	·0001268231
7886	2.3943	62188996	490422422456	88·8031531	19·9045451	·0001268070
7887	3.11.239	62204769	490609013103	88·8087834	19·9053864	·0001267909
7888	$2^4.17.29$	62220544	490795651072	88·8144133	19·9062277	·0001267748
7889	$7^3.23$	62236321	490982336369	88·8200428	19·9070688	·0001267588
7890	2.3.5.263	62252100	491169069000	88·8256720	19·9079099	·0001267427
7891	13.607	62267881	491355848971	88·8313008	19·9087510	·0001267267
7892	$2^2.1973$	62283664	491542676288	88·8369293	19·9095919	·0001267106
7893	$3^2.877$	62299449	491729550957	88·8425574	19·9104328	·0001266945
7894	2.3.947	62315236	491916472984	88·8481851	19·9112736	·0001266785
7895	5.1579	62331025	492103442375	88·8538125	19·9121144	·0001266624
7896	$2^3.3.7.47$	62346816	492290459136	88·8594396	19·9129550	·0001266464
7897	53.149	62362609	492477523273	88·8650663	19·9137956	·0001266304
7898	2.11.359	62378404	492664634792	88·8706926	19·9146361	·0001266143
7899	3.2633	62394201	492851793699	88·8763186	19·9154766	·0001265983
7900	$2^2.5^2.79$	62410000	493039000000	88·8819442	19·9163170	·0001265823
7901	.....	62425801	493226253701	88·8875694	19·9171573	·0001265663
7902	$2.3^2.439$	62441604	493413554808	88·8931943	19·9179975	·0001265502
7903	7.1129	62457409	493600903327	88·8988189	19·9188377	·0001265342
7904	$2^5.13.19$	62473216	493788299264	88·9044431	19·9196778	·0001265182
7905	3.5.17.31	62489025	493975742625	88·9100670	19·9205178	·0001265022
7906	2.59.67	62504836	494163233416	88·9156905	19·9213578	·0001264862
7907	.....	62520649	494350771643	88·9213136	19·9221977	·0001264702
7908	$2^2.3.659$	62536464	494538357312	88·9269364	19·9230375	·0001264542
7909	11.719	62552281	494725990429	88·9325588	19·9238773	·0001264382
7910	2.5.7.113	62568100	494913671000	88·9381808	19·9247170	·0001264223
7911	$3^3.293$	62583921	495101399031	88·9438025	19·9255566	·0001264063
7912	$2^3.23.43$	62599744	495289174528	88·9494239	19·9263961	·0001263903
7913	41.193	62615569	495476997497	88·9550449	19·9272356	·0001263743
7914	2.3.1319	62631396	495664867944	88·9606655	19·9280750	·0001263584
7915	5.1583	62647225	495852785875	88·9662858	19·9289143	·0001263424
7916	$2^2.1979$	62663056	496040751296	88·9719057	19·9297535	·0001263264
7917	3.7.13.29	62678889	496228764213	88·9775253	19·9305927	·0001263105
7918	2.37.107	62694724	496416824632	88·9831445	19·9314318	·0001262945
7919	.....	62710561	496604932559	88·9887634	19·9322708	·0001262786

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7920	$2^4.3^2.5.11$	62726400	496793088000	88·9943818	19·9331098	·0001262626
7921	89^2	62742241	496981290961	89·0000000	19·9339487	·0001262467
7922	2.17.233	62758084	497169541448	89·0056178	19·9347876	·0001262307
7923	3.19.139	62773929	497357839467	89·0112352	19·9356263	·0001262148
7924	$2^2.7.283$	62789776	497546185024	89·0168523	19·9364650	·0001261989
7925	$5^2.317$	62805625	497734578125	89·0224691	19·9373036	·0001261830
7926	2.3.1321	62821476	497923018776	89·0280854	19·9381422	·0001261670
7927	.....	62837329	498111506983	89·0337015	19·9389806	·0001261511
7928	$2^3.991$	62853184	498300042752	89·0393172	19·9398191	·0001261352
7929	$3^2.881$	62869041	498488626089	89·0449325	19·9406574	·0001261193
7930	2.5.13.61	62884900	498677257000	89·0505474	19·9414957	·0001261034
7931	7.11.103	62900761	498865935491	89·0561620	19·9423339	·0001260875
7932	$2^2.3.661$	62916624	499054661568	89·0617763	19·9431720	·0001260716
7933	.....	62932489	499243435237	89·0673902	19·9440101	·0001260557
7934	2.3967	62948356	499432256504	89·0730037	19·9448481	·0001260398
7935	$3.5.23^2$	62964225	499621125375	89·0786169	19·9456860	·0001260239
7936	$2^3.31$	62980096	499810041856	89·0842298	19·9465238	·0001260081
7937	.....	62995969	499999005953	89·0898423	19·9473616	·0001259922
7938	$2.3^4.7^2$	63011844	500188017672	89·0954544	19·9481993	·0001259763
7939	17.467	63027721	500377077019	89·1010662	19·9490369	·0001259604
7940	$2^2.5.397$	63043600	500566184000	89·1066776	19·9498745	·0001259446
7941	3.2647	63059481	500755338621	89·1122887	19·9507120	·0001259287
7942	$2.11.19^2$	63075364	500944540888	89·1178994	19·9515494	·0001259129
7943	$13^2.47$	63091249	501133790807	89·1235098	19·9523867	·0001258970
7944	$2^3.3.331$	63107136	501323088384	89·1291198	19·9532240	·0001258812
7945	5.7.227	63123025	501512433625	89·1347294	19·9540612	·0001258653
7946	2.29.137	63138916	501701826536	89·1403388	19·9548984	·0001258495
7947	$3^2.883$	63154809	501891267123	89·1459477	19·9557354	·0001258336
7948	$2^2.1987$	63170704	502080755392	89·1515563	19·9565724	·0001258178
7949	.....	63186601	502270291349	89·1571646	19·9574093	·0001258020
7950	$2.3.5^2.53$	63202500	502459875000	89·1627725	19·9582462	·0001257862
7951	.....	63218401	502649506351	89·1683800	19·9590829	·0001257703
7952	$2^4.7.71$	63234304	502839185408	89·1739872	19·9599197	·0001257545
7953	3.11.241	63250209	503028912177	89·1795940	19·9607564	·0001257387
7954	2.41.97	63266116	503218686664	89·1852005	19·9615929	·0001257229
7955	5.37.43	63282025	503408508875	89·1908067	19·9624294	·0001257071
7956	$2^2.3^2.13.17$	63297936	503598378816	89·1964125	19·9632659	·0001256913
7957	73.109	63313849	503788296493	89·2020179	19·9641023	·0001256755
7958	2.23.173	63329764	503978261912	89·2076230	19·9649386	·0001256597
7959	3.7.379	63345681	504168275079	89·2132277	19·9657748	·0001256439
7960	$2^3.5.199$	63361600	504358336000	89·2188321	19·9666110	·0001256281
7961	19.419	63377521	504548444681	89·2244361	19·9674470	·0001256124
7962	2.3.1327	63393444	504738601128	89·2300398	19·9682831	·0001255966
7963	.....	63409369	504928805347	89·2356431	19·9691190	·0001255808
7964	2.11.181	63425296	505119057344	89·2412460	19·9699549	·0001255650
7965	$3^2.5.59$	63441225	505309357125	89·2468487	19·9707907	·0001255493
7966	2.7.569	63457156	505499704696	89·2524509	19·9716264	·0001255335
7967	31.257	63473089	505690100063	89·2580529	19·9724621	·0001255178
7968	$2^5.3.83$	63489024	505880543232	89·2636544	19·9732977	·0001255020
7969	13.613	63504961	506071034209	89·2692556	19·9741332	·0001254863
7970	2.5.797	63520900	506261573000	89·2748565	19·9749687	·0001254705
7971	3.2657	63536841	506452159611	89·2804570	19·9758041	·0001254548
7972	$2^2.1993$	63552784	506642794048	89·2860571	19·9766394	·0001254390
7973	7.17.67	63568729	506833476317	89·2916569	19·9774746	·0001254233
7974	$2.3^2.443$	63584676	507024206424	89·2972564	19·9783098	·0001254076
7975	$5^2.11.29$	63600625	507214984375	89·3028555	19·9791449	·0001253918
7976	$2^3.997$	63616576	507405810176	89·3084542	19·9799800	·0001253761
7977	3.2659	63632529	507596683833	89·3140526	19·9808149	·0001253604
7978	2.3989	63648484	507787605352	89·3196507	19·9816498	·0001253447
7979	79.101	63664441	507978574739	89·3252484	19·9824847	·0001253290

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
7980	$2^2.3.5.7.19$	63680400	508169592000	89·3308457	19·9833194	·0001253133
7981	23.347	63696361	508360657141	89·3364427	19·9841541	·0001252976
7982	2.13.307	63712324	508551770168	89·3420394	19·9849887	·0001252819
7983	$3^2.887$	63728289	508742931087	89·3476357	19·9858233	·0001252662
7984	$2^4.499$	63744256	508934139904	89·3532316	19·9866578	·0001252505
7985	5.1597	63760225	509125396625	89·3588272	19·9874922	·0001252348
7986	$2.3.11^3$	63776196	509316701256	89·3644224	19·9883265	·0001252191
7987	$7^2.163$	63792169	509508053803	89·3700173	19·9891608	·0001252035
7988	$2^2.1997$	63808144	509699454272	89·3756119	19·9899950	·0001251878
7989	3.2663	63824121	509890902669	89·3812061	19·9908291	·0001251721
7990	2.5.17.47	63840100	510082399000	89·3867999	19·9916632	·0001251564
7991	61.131	63856081	510273943271	89·3923934	19·9924972	·0001251408
7992	$2^3.3^3.37$	63872064	510465535488	89·3979866	19·9933311	·0001251252
7993	.....	63888049	510657175657	89·4035793	19·9941650	·0001251095
7994	2.7.571	63904036	510848863784	89·4091718	19·9949988	·0001250938
7995	3.5.13.41	63920025	511040599875	89·4147639	19·9958325	·0001250782
7996	$2^2.1999$	63936016	511232383936	89·4203556	19·9966661	·0001250625
7997	11.727	63952009	511424215973	89·4259470	19·9974997	·0001250469
7998	2.3.31.43	63968004	511616095992	89·4315380	19·9983332	·0001250313
7999	19.421	63984001	511808023999	89·4371287	19·9991666	·0001250156
8000	$2^6.5^3$	64000000	512000000000	89·4427191	20·0000000	·0001250000
8001	$3^2.7.127$	64016001	512192024001	89·4483091	20·0008333	·0001249844
8002	2.4001	64032004	512384096008	89·4538987	20·0016665	·0001249688
8003	53.151	64048009	512576216027	89·4594880	20·0024997	·0001249531
8004	$2^2.3.23.29$	64064016	512768384064	89·4650770	20·0033327	·0001249375
8005	5.1601	64080025	512960600125	89·4706656	20·0041658	·0001249219
8006	2.4003	64096036	513152864216	89·4762538	20·0049987	·0001249063
8007	3.17.157	64112049	513345176343	89·4818417	20·0058316	·0001248907
8008	$2^3.7.11.13$	64128064	513537536512	89·4874293	20·0066644	·0001248751
8009	.....	64144081	513729944729	89·4930165	20·0074971	·0001248595
8010	$2.3^2.5.89$	64160100	513922401000	89·4986033	20·0083298	·0001248439
8011	.....	64176121	514114905331	89·5041899	20·0091624	·0001248284
8012	$2^2.2003$	64192144	514307457728	89·5097760	20·0099949	·0001248128
8013	3.2671	64208169	514500058197	89·5153618	20·0108274	·0001247972
8014	2 4007	64224196	514692706744	89·5209473	20·0116598	·0001247816
8015	5 7.229	64240225	514885403375	89·5265324	20·0124921	·0001247661
8016	$2^4.3.167$	64256256	515078148096	89·5321172	20·0133243	·0001247505
8017	.....	64272289	515270940913	89·5377016	20·0141565	·0001247349
8018	2.19.211	64288324	515463781832	89·5432856	20·0149886	·0001247194
8019	$3^2.11$	64304361	515656670859	89·5488693	20·0158207	·0001247039
8020	$2^2.5.401$	64320400	515849608000	89·5544527	20·0166527	·0001246883
8021	13 617	64336441	516042593261	89·5600357	20·0174846	·0001246727
8022	2.3.7.191	64352484	516235626648	89·5656184	20·0183164	·0001246572
8023	71.113	64368529	516428708167	89·5712008	20·0191482	·0001246417
8024	$2^3.17.59$	64384576	516621837824	89·5767827	20·0199799	·0001246261
8025	$3.5^2.107$	64400625	516815015625	89·5823644	20·0208115	·0001246106
8026	2.4013	64416676	517008241576	89·5879456	20·0216431	·0001245951
8027	23.349	64432729	517201515683	89·5935266	20·0224746	·0001245795
8028	$2^2.3^2.223$	64448784	517394837952	89·5991071	20·0233060	·0001245640
8029	7.31.37	64464841	517588208389	89·6046874	20·0241374	·0001245485
8030	2.5.11.73	64480900	517781627000	89·6102673	20·0249687	·0001245330
8031	3.2677	64496961	517975093791	89·6158468	20·0257999	·0001245175
8032	$2^5.251$	64513024	518168608768	89·6214260	20·0266310	·0001245020
8033	29.277	64529089	518362171937	89·6270049	20·0274621	·0001244865
8034	2.3.13.103	64545156	518555783304	89·6325834	20·0282932	·0001244710
8035	5.1607	64561225	518749442875	89·6381615	20·0291241	·0001244555
8036	$2^2.7^2.41$	64577296	518943150656	89·6437393	20·0299550	·0001244400
8037	$3^2.19.47$	64593369	519136906653	89·6493168	20·0307858	·0001244245
8038	2 4019	64609444	519330710872	89·6548939	20·0316165	·0001244091
8039	.....	64625521	519524563319	89·6604707	20·0324472	·0001243936

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8040	$2^3.3.5.67$	64641600	519718464000	89·6660471	20·0339778	·0001243781
8041	11.17.43	64657681	519919412921	89·6716232	20·0341083	·0001243626
8042	2.4021	64673764	520106410088	89·6771989	20·0349388	·0001243472
8043	3.7.383	64689849	520300455507	89·6827743	20·0357692	·0001243317
8044	$2^2.2011$	64705936	520494549184	89·6883493	20·0365995	·0001243163
8045	5.1609	64722025	520688691125	89·6939240	20·0374298	·0001243008
8046	$2.3^3.149$	64738116	520882881336	89·6994983	20·0382600	·0001242854
8047	13.619	64754209	521077119823	89·7050723	20·0390901	·0001242699
8048	$2^4.503$	64770304	521271406592	89·7106460	20·0399202	·0001242545
8049	3.2683	64786401	521465741649	89·7162193	20·0407502	·0001242390
8050	$2.5^2.7.23$	64802500	521660125000	89·7217923	20·0415801	·0001242236
8051	83.97	64818601	521854556651	89·7273649	20·0424099	·0001242082
8052	$2^2.3.11.61$	64834704	522049036608	89·7329371	20·0432397	·0001241927
8053	.....	64850809	522243564877	89·7385090	20 0440694	·0001241773
8054	2.4027	64866916	522438141464	89·7440806	20·0448991	·0001241619
8055	$3^2.5.179$	64883025	522632766375	89·7496518	20·0457286	·0001241465
8056	$2^3.19.53$	64899136	522827439616	89·7552227	20·0465581	·0001241311
8057	7.1151	64915249	523022161193	89·7607933	20·0473876	·0001241157
8058	2.3.17.79	64931364	523216931112	89·7663635	20·0482169	·0001241003
8059	.....	64947481	523411749379	89·7719333	20·0490462	·0001240849
8060	$2^2.5.13.31$	64963600	523606616000	89·7775028	20·0498755	·0001240695
8061	3.2687	64979721	523801530981	89·7830720	20·0507046	·0001240541
8062	2.29.139	64995844	523996494328	89·7886408	20·0515337	·0001240387
8063	11.733	65011969	524191506047	89·7942092	20·0523627	·0001240233
8064	$2^7.3^2.7$	65028096	524386566144	89·7997773	20·0531917	·0001240079
8065	5.1613	65044225	524581674625	89·8053451	20·0540206	·0001239926
8066	2.37.109	65060356	524776831496	89·8109125	20·0548494	·0001239772
8067	3.2689	65076489	524972036763	89·8164796	20·0556781	·0001236618
8068	$2^2.2017$	65092624	525167290432	89·8220463	20·0565068	·0001239465
8069	.....	65108761	525362592509	89·8276127	20·0573354	·0001239311
8070	$2.3.5.269$	65124900	525557943000	89·8331786	20·0581640	·0001239157
8071	7.1153	65141041	525753341911	89·8387445	20·0589924	·0001239004
8072	$2^3.1009$	65157184	525948789248	89·8443098	20·0598208	·0001238850
8073	$3^3.13.23$	65173329	526144285017	89·8498748	20·0606492	·0001238697
8074	2.11.367	65189476	526339829224	89·8554394	20·0614774	·0001238543
8075	$5^2.17.19$	65205625	526535421875	89·8610038	20·0623056	·0001238390
8076	$2^2.3.673$	65221776	526731062976	89·8665677	20·0631338	·0001238237
8077	41.197	65237929	526926752533	89·8721314	20·0639618	·0001238083
8078	2.7.577	65254084	527122490552	89·8776946	20·0647898	·0001237930
8079	3.2693	65270241	527318277039	89·8832576	20·0656177	·0001237777
8080	$2^4.5.101$	65286400	527514112000	89·8888202	20·0664456	·0001237624
8081	.....	65302561	527709995441	89·8943825	20·0672734	·0001237471
8082	$2.3^2.449$	65318724	527905927368	89·8999444	20·0681011	·0001237317
8083	59.137	65334889	528101907787	89·9055059	20·0689288	·0001237164
8084	$2^2.43.47$	65351056	528297936704	89·9110671	20·0697564	·0001237011
8085	$3.5.7^2.11$	65367225	528494014125	89·9166280	20·0705839	·0001236858
8086	2.13.311	65383396	528690140056	89·9221885	20·0714114	·0001236705
8087	.....	65399569	528886314503	89·9277487	20·0722387	·0001236552
8088	$2^3.3.337$	65415744	529082537472	89·9333086	20·0730660	·0001236400
8089	.....	65431921	529278808969	89·9388681	20.0738933	·0001236247
8090	2.5.809	65448100	529475129000	89·9444273	20·0747205	·0001236094
8091	$3^2.29.31$	65464281	529671497571	89·9499861	20·0755476	·0001235941
8092	$2^2.7.17^2$	65480464	529867914688	89·9555446	20·0763746	·0001235788
8093	.....	65496649	530064380357	89·9611027	20·0772016	·0001235636
8094	2.3.19.71	65512836	530260894584	89·9666605	20·0780285	·0001235483
8095	5.1619	65529025	530457457375	89·9722179	20·0788553	·0001235330
8096	$2^5.11.23$	65545216	530654068736	89·9777750	20·0796821	·0001235178
8097	3.2699	65561409	530850728673	89·9833318	20·0805088	·0001235025
8098	2.4049	65577604	531047437192	89·9888882	20·0813354	·0001234873
8099	7.13.89	65593801	531244194299	89·9944443	20·0821620	·0001234720

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8100	$2^2.3^4.5^2$	65610000	531441000000	90·0000000	20·0829885	·0001234568
8101	.....	65626201	531637854301	90·0055554	20·0838149	·0001234415
8102	2.4051	65642404	531834757208	90·0111104	20·0846413	·0001234263
8103	3.37.73	65658609	532031708727	90·0166651	20·0854676	·0001234111
8104	$2^3.1013$	65674816	532228708864	90·0222194	20·0862938	·0001233959
8105	5.1621	65691025	532425757625	90·0277735	20·0871199	·0001233806
8106	2.3.7.193	65707236	532622855016	90·0333271	20·0879460	·0001233654
8107	$11^2.67$	65723449	532820001043	90·0388805	20·0887721	·0001233502
8108	$2^2.2027$	65739664	533017195712	90·0444334	20·0895980	·0001233350
8109	$3^2.17.53$	65755881	533214439029	90·0499861	20·0904239	·0001233198
8110	2.5.811	65772100	533411731000	90·0555384	20·0912497	·0001233046
8111	.....	65788321	533609071631	90·0610904	20·0920754	·0001232894
8112	$2^4.3.13^2$	65804544	533806460928	90·0666420	20·0929011	·0001232742
8113	7.19.61	65820769	534003898897	90·0721932	20·0937267	·0001232590
8114	2.4057	65836996	534201385544	90·0777442	20·0945523	·0001232438
8115	3.5.541	65853225	534398920875	90·0832948	20·0953778	·0001232286
8116	$2^2.2029$	65869456	534596504896	90·0888450	20·0962032	·0001232134
8117	.....	65885689	534794137613	90·0943949	20·0970285	·0001231982
8118	$2.3^2.11.41$	65901924	534991819032	90·0999445	20·0978538	·0001231831
8119	23.353	65918161	535189549159	90·1054937	20·0986790	·0001231679
8120	$2^3.5.7.29$	65934400	535387328000	90·1110426	20·0995041	·0001231527
8121	3.2707	65950641	535585155561	90·1165911	20·1003292	·0001231375
8122	2.31.131	65966884	535783031848	90·1221393	20·1011542	·0001231224
8123	.....	65983129	535980956867	90·1276872	20·1019791	·0001231072
8124	$2^2.3.677$	65999376	536178930624	90·1332347	20·1028040	·0001230921
8125	$5^4.13$	66015625	536376953125	90·1387819	20·1036288	·0001230769
8126	2.17.239	66031876	536575024376	90·1443287	20·1044535	·0001230618
8127	$3^3.7.43$	66048129	536773144383	90·1498752	20·1052782	·0001230466
8128	$2^6.127$	66064384	536971313152	90·1554213	20·1061028	·0001230315
8129	11.739	66080641	537169530689	90·1609671	20·1069273	·0001230164
8130	2.3.5.271	66096900	537367797000	90·1665126	20·1077518	·0001230012
8131	47.173	66113161	537566112091	90·1720577	20·1085761	·0001229861
8132	$2^2.19.107$	66129424	537764475968	90·1776025	20·1094005	·0001229710
8133	3.2711	66145689	537962888637	90·1831469	20·1102247	·0001229559
8134	$2.7^2.83$	66161956	538161350104	90·1886910	20·1110489	·0001229407
8135	5.1627	66178225	538359860375	90·1942348	20·1118730	·0001229257
8136	$2^3.3^2.113$	66194496	538558419456	90·1997783	20·1126971	·0001229105
8137	79.103	66210769	538757027353	90·2053213	20·1135211	·0001228954
8138	2.13.313	66227044	538955684072	90·2108641	20·1143450	·0001228803
8139	3.2713	66243321	539154389619	90·2164065	20·1151688	·0001228652
8140	$2^3.5.11.37$	66259600	539353144000	90·2219485	20·1159926	·0001228501
8141	7.1163	66275881	539551947221	90·2274903	20·1168163	·0001228350
8142	2.3.23.59	66292164	539750799288	90·2330316	20·1176400	·0001228199
8143	17.479	66308449	539949700207	90·2385727	20·1184635	·0001228049
8144	$2^4.509$	66324736	540148649984	90·2441134	20·1192871	·0001227898
8145	$3^2.5.181$	66341025	540347648625	90·2496537	20·1201105	·0001227747
8146	2.4073	66357316	540546696136	90·2551938	20·1209339	·0001227596
8147	.....	66373609	540745792523	90·2607334	20·1217572	·0001227446
8148	$2^2.3.7.97$	66389904	540944937792	90·2662728	20·1225805	·0001227295
8149	29.281	66406201	541144131949	90·2718118	20·1234037	·0001227144
8150	$2.5^2.163$	66422500	541343375000	90·2773504	20·1242268	·0001226994
8151	3.11.13.19	66438801	541542666951	90·2828888	20·1250498	·0001226843
8152	$2^3.1019$	66455104	541742007808	90·2884267	20·1258728	·0001226693
8153	31.263	66471409	541941397577	90·2939644	20·1266957	·0001226542
8154	$2.3^3.151$	66487716	542140886264	90·2995017	20·1275185	·0001226392
8155	5.7.233	66504025	542340323875	90·3050386	20·1283413	·0001226242
8156	$2^2.2039$	66520336	542539860416	90·3105752	20·1291640	·0001226091
8157	3.2719	66536649	542739445893	90·3161115	20·1299867	·0001225941
8158	2.4079	66552964	542939080312	90·3216475	20·1308092	·0001225791
8159	41.199	66569281	543138763679	90·3271831	20·1316317	·0001225640

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8160	$2^5.3.5.17$	66585600	543338496000	90·3327183	20·1324542	·0001225490
8161	.....	66601921	543538277281	90·3382532	20·1332765	·0001225340
8162	2.7.11.53	66618244	543738107528	90·3437878	20·1340989	·0001225190
8163	$3^2.907$	66634569	543937986747	90·3493221	20·1349211	·0001225040
8164	$2^2.13.157$	66650896	544137914944	90·3548560	20·1357433	·0001224890
8165	5.23.71	66667225	544337892125	90·3603896	20·1365654	·0001224740
8166	2.3.1361	66683556	544537918296	90·3659228	20·1373874	·0001224590
8167	.....	66699889	544737993463	90·3714557	20·1382094	·0001224440
8168	$2^3.1021$	66716224	544938117632	90·3769882	20·1390313	·0001224290
8169	3.7.389	66732561	545138290809	90·3825204	20·1398531	·0001224140
8170	2.5.19.43	66748900	545338513000	90·3880523	20·1406749	·0001223990
8171	.....	66765241	545538784211	90·3935838	20·1414966	·0001223840
8172	$2^2.3^2.227$	66781584	545739104448	90·3991150	20·1423182	·0001223691
8173	11.743	66797929	545939473717	90·4046459	20·1431398	·0001223541
8174	2.61.67	66814276	546139892024	90·4101764	20·1439613	·0001223391
8175	$3.5^2.109$	66830625	546340359375	90·4157066	20·1447827	·0001223242
8176	$2^4.7.73$	66846976	546540875776	90·4212365	20·1456041	·0001223092
8177	13.17.37	66863329	546741441233	90·4267660	20·1464254	·0001222942
8178	2.3.29.47	66879684	546942055752	90·4322952	20·1472466	·0001222793
8179	.....	66896041	547142719339	90·4378240	20·1480678	·0001222643
8180	$2^2.5.409$	66912400	547343432000	90·4433525	20·1488889	·0001222494
8181	$3^4.101$	66928761	547544193741	90·4488806	20·1497099	·0001222344
8182	2.4091	66945124	547745004568	90·4544084	20·1505309	·0001222195
8183	$7^2.167$	66961489	547945864487	90·4599359	20·1513518	·0001222046
8184	$2^3.3.11.31$	66977856	548146773504	90·4654630	20·1521726	·0001221896
8185	5.1637	66994225	548347731625	90·4709898	20·1529934	·0001221747
8186	2.4093	67010596	548548738856	90·4765163	20·1538140	·0001221598
8187	3.2729	67026969	548749795203	90·4820424	20·1546347	·0001221449
8188	$2^2.23.89$	67043344	548950900672	90·4875682	20·1554552	·0001221299
8189	19.431	67059721	549152055269	90·4930936	20·1562757	·0001221150
8190	$2.3^2.5.7.13$	67076100	549353259000	90·4986188	20·1570961	·0001221001
8191	.....	67092481	549554511871	90·5041436	20·1579165	·0001220852
8192	2^{13}	67108864	549755813888	90·5096680	20·1587368	·0001220703
8193	3.2731	67125249	549957165057	90·5151921	20·1595570	·0001220554
8194	2.17.241	67141636	550158565384	90·5207159	20·1603772	·0001220405
8195	5.11.149	67158025	550360014875	90·5262393	20·1611973	·0001220256
8196	$2^2.3.683$	67174416	550561513536	90·5317624	20·1620173	·0001220107
8197	7.1171	67190809	550763061373	90·5372852	20·1628373	·0001219959
8198	2.4099	67207204	550964658392	90·5428076	20·1636571	·0001219810
8199	$3^2.911$	67223601	551166304599	90·5483296	20·1644769	·0001219661
8200	$2^3.5^2.41$	67240000	551368000000	90·5538514	20·1652967	·0001219512
8201	59.139	67256401	551569744601	90·5593728	20·1661164	·0001219363
8202	2.3.1367	67272804	551771538408	90·5648939	20·1669360	·0001219215
8203	13.631	67289209	551973381427	90·5704146	20·1677556	·0001219066
8204	$2^2.7.293$	67305616	552175273664	90·5759350	20·1685751	·0001218918
8205	3.5.547	67322025	552377215125	90·5814551	20·1693945	·0001218769
8206	2.11.373	67338436	552579205816	90·5869748	20·1702139	·0001218621
8207	29.283	67354849	552781245743	90·5924942	20·1710331	·0001218472
8208	$2^4.3^3.19$	67371264	552983334912	90·5980132	20·1718524	·0001218324
8209	.....	67387681	553185473329	90·6035320	20·1726715	·0001218176
8210	2.5.821	67404100	553387661000	90·6090503	20·1734906	·0001218027
8211	3.7.17.23	67420521	553589897931	90·6145684	20·1743096	·0001217878
8212	$2^2.2053$	67436944	553792184128	90·6200861	20·1751286	·0001217730
8213	43.191	67453369	553994519597	90·6256035	20·1759475	·0001217582
8214	$2.3.37^2$	67469796	554196904344	90·6311205	20·1767663	·0001217434
8215	5.31.53	67486225	554399338375	90·6366372	20·1775851	·0001217285
8216	$2^3.13.79$	67502656	554601821696	90·6421535	20·1784038	·0001217137
8217	$3^2.11.83$	67519089	554804354313	90·6476696	20·1792224	·0001216989
8218	2.7.587	67535524	555006936232	90·6531853	20·1800410	·0001216841
8219	.....	67551961	555209567459	90·6587007	20·1808595	·0001216693

Numb	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8220	$2^2.3.5.137$	67568400	555412248000	90·6642157	20·1816779	·0001216545
8221	.....	67584841	555614977861	90·6697304	20·1824963	·0001216397
8222	2.4111	67601284	555817757048	90·6752447	20·1833146	·0001216249
8223	3.2741	67617729	556020585567	90·6807587	20·1841328	·0001216101
8224	$2^5.257$	67634176	556223463424	90·6862724	20·1849510	·0001215953
8225	$5^2.7.47$	67650625	556426390625	90·6917857	20·1857691	·0001215805
8226	$2.3^2.457$	67667076	556629367176	90·6972987	20·1865871	·0001215658
8227	19.433	67683529	556832393083	90·7028114	20·1874051	·0001215510
8228	$2^2.11^2.17$	67699984	557035468352	90·7083237	20·1882230	·0001215362
8229	3.13.211	67716441	557238592989	90·7138357	20·1890408	·0001215214
8230	2.5.823	67732900	557441767000	90·7193474	20·1898586	·0001215067
8231	.....	67749361	557644990391	90·7248587	20·1906763	·0001214919
8232	$2^3.3.7^3$	67765824	557848263168	90·7303698	20·1914939	·0001214772
8233	.....	67782289	558051585337	90·7358804	20·1923115	·0001214624
8234	2.23.179	67798756	558254956904	90·7413908	20·1931290	·0001214477
8235	$3^2.5.61$	67815225	558458377875	90·7469008	20·1939464	·0001214329
8236	$2^2.29.71$	67831696	558661848256	90·7524104	20·1947638	·0001214182
8237	.....	67848169	558865368053	90·7579197	20·1955811	·0001214034
8238	2.3.1373	67864644	559068937272	90·7634287	20·1963983	·0001213887
8239	7.11.107	67881121	559272555919	90·7689374	20·1972155	·0001213740
8240	$2^4.5.103$	67897600	559476224000	90·7744457	20·1980326	·0001213592
8241	3.41.67	67914081	559679941521	90·7799537	20·1988496	·0001213445
8242	2.13.317	67930564	559883708488	90·7854614	20·1996666	·0001213298
8243	.....	67947049	560087524907	90·7909687	20·2004835	·0001213151
8244	$2^2.3^2.229$	67963536	560291390784	90·7964757	20·2013004	·0001213003
8245	5.17.97	67980025	560495306125	90·8019823	20·2021171	·0001212856
8246	2.7.19.31	67996516	560699270936	90·8074887	20·2029339	·0001212709
8247	3.2749	68013009	560903285223	90·8129946	20·2037505	·0001212562
8248	$2^3.1031$	68029504	561107348992	90·8185003	20·2045671	·0001212415
8249	73.113	68046001	561311462249	90·8240056	20·2053836	·0001212268
8250	$2.3.5^3.11$	68062500	561515625000	90·8295106	20·2062000	·0001212121
8251	37.223	68079001	561719837251	90·8350153	20·2070164	·0001211974
8252	$2^2.2063$	68095504	561924099008	90·8405196	20·2078327	·0001211827
8253	$3^2.7.131$	68112009	562128410277	90·8460236	20·2086490	·0001211681
8254	2.4127	68128516	562332771064	90·8515272	20·2094652	·0001211534
8255	5.13.127	68145025	562537181375	90·8570305	20·2102813	·0001211387
8256	$2^6.3.43$	68161536	562741641216	90·8625335	20·2110974	·0001211240
8257	23.359	68178049	562946150593	90·8680362	20·2119133	·0001211094
8258	2.4129	68194564	563150709512	90·8735385	20·2127293	·0001210947
8259	3.2753	68211081	563355317979	90·8790405	20·2135451	·0001210800
8260	$2^2.5.7.59$	68227600	563559976000	90·8845421	20·2143609	·0001210654
8261	11.751	68244121	563764683581	90·8900435	20·2151766	·0001210507
8262	$2.3^6.17$	68260644	563969440728	90·8955444	20·2159923	·0001210361
8263	.....	68277169	564174247447	90·9010451	20·2168079	·0001210214
8264	23.1033	68293696	564379103744	90·9065454	20·2176234	·0001210068
8265	3.5.19.29	68310225	564584009625	90·9120454	20·2184389	·0001209921
8266	2.4133	68326756	564788965096	90·9175450	20·2192543	·0001209775
8267	7.1181	68343289	564993970163	90·9230443	20·2200696	·0001209629
8268	$2^2.3.13.53$	68359824	565199024832	90·9285433	20·2208848	·0001209482
8269	.....	68376361	565404129109	90·9340420	20·2217000	·0001209336
8270	2.5.827	68392900	565609283000	90·9395403	20·2225152	·0001209190
8271	$3^3.919$	68409441	565814486511	90·9450383	20·2233302	·0001209044
8272	$2^4.11.47$	68425984	566019739648	90·9505360	20·2241452	·0001208897
8273	.....	68442529	566225042417	90·9560333	20·2249602	·0001208751
8274	2.3.7.197	68459076	566430394824	90·9615303	20·2257750	·0001208605
8275	$5^2.331$	68475625	566635796875	90·9670270	20·2265898	·0001208459
8276	$2^2.2069$	68492176	566841248576	90·9725233	20·2274046	·0001208313
8277	3.31.89	68508729	567046749933	90·9780193	20·2282192	·0001208167
8278	2.4139	68525284	567252300952	90·9835150	20·2290338	·0001208021
8279	17.487	68541841	567457901639	90·9890103	20·2298484	·0001207875

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8280	$2^3.3^2.5.23$	68558400	567663552000	90·9945053	20·2306628	·0001207729
8281	$7^2.13^2$	68574961	567869252041	91·0000000	20·2314773	·0001207584
8282	2.41.101	68591524	568075001768	91·0054943	20·2322916	·0001207438
8283	3.11.251	68608089	568280801187	91·0109884	20·2331059	·0001207292
8284	$2^2.19.109$	68624656	568486650304	91·0164820	20·2339201	·0001207146
8285	5.1657	68641225	568692549125	91·0219754	20·2347343	·0001207001
8286	2.3.1381	68657796	568898497656	91·0274684	20·2355484	·0001206855
8287	.....	68674369	569104495903	91·0329611	20·2363624	·0001206709
8288	$2^5.7.37$	68690944	569310543872	91·0384534	20·2371763	·0001206564
8289	$3^3.307$	68707521	569516641569	91·0439454	20·2379902	·0001206418
8290	2.5.829	68724100	569722789000	91·0494371	20·2388040	·0001206273
8291	.....	68740681	569928986171	91·0549285	20·2396178	·0001206127
8292	$2^2.3.691$	68757264	570135233088	91·0604195	20·2404314	·0001205982
8293	.....	68773849	570341529757	91·0659102	20·2412451	·0001205836
8294	2.11.13.29	68790436	570547876184	91·0714005	20·2420586	·0001205691
8295	3.5.7.79	68807025	570754272375	91·0768906	20·2428721	·0001205546
8296	$2^3.17.61$	68823616	570960718336	91·0823803	20·2436856	·0001205400
8297	.....	68840209	571167214073	91·0878697	20·2444989	·0001205255
8298	$2.3^2.461$	68856804	571373759592	91·0933587	20·2453122	·0001205110
8299	43.193	68873401	571580354899	91·0988474	20·2461254	·0001204964
8300	$2^2.5^2.83$	68890000	571787000000	91·1043358	20·2469386	·0001204819
8301	3.2767	68906601	571993694901	91·1098238	20·2477517	·0001204674
8302	2.7.593	68923204	572200439608	91·1153116	20·2485647	·0001204529
8303	$19^2.23$	68939809	572407234127	91·1207989	20·2493777	·0001204384
8304	$2^4.3.173$	68956416	572614078464	91·1262860	20·2501906	·0001204239
8305	5.11.151	68973025	572820972625	91·1317727	20·2510034	·0001204094
8306	2.4153	68989636	573027916616	91·1372591	20·2518162	·0001203949
8307	$3^2.13.71$	69006249	573234910443	91·1427452	20·2526289	·0001203804
8308	$2^2.31.67$	69022864	573441954112	91·1482309	20·2534415	·0001203659
8309	7.1187	69039481	573649047629	91·1537163	20·2542541	·0001203514
8310	2.3.5.277	69056100	573856191000	91·1592014	20·2550666	·0001203369
8311	.....	69072721	574063384231	91·1646861	20·2558791	·0001203225
8312	$2^3.1039$	69089344	574270627328	91·1701705	20·2566914	·0001203080
8313	3.17.163	69105969	574477920297	91·1756546	20·2575038	·0001202935
8314	2.4157	69122596	574685263144	91·1811384	20·2583160	·0001202790
8315	5.1663	69139225	574892655875	91·1866218	20·2591282	·0001202646
8316	$2^2.3^3.7.11$	69155856	575100098496	91·1921049	20·2599403	·0001202501
8317	.....	69172489	575307591013	91·1975877	20·2607523	·0001202357
8318	2.4159	69189124	575515133432	91·2030701	20·2615643	·0001202212
8319	3.47.59	69205761	575722725759	91·2085522	20·2623763	·0001202068
8320	$2^7.5.13$	69222400	575930368000	91·2140340	20·2631881	·0001201923
8321	53.157	69239041	576138060161	91·2195155	20·2639999	·0001201779
8322	2.3.19.73	69255684	576345802248	91·2249966	20·2648116	·0001201634
8323	7.29.41	69272329	576553594267	91·2304774	20·2656233	·0001201490
8324	$2^2.2081$	69288976	576761436224	91·2359578	20·2664349	·0001201346
8325	$3^2.5^2.37$	69305625	576969328125	91·2414379	20·2672464	·0001201201
8326	2.2 .181	69322276	577177269976	91·2469178	20·2680579	·0001201057
8327	11.757	69338929	577385261783	91·2523972	20·2688693	·0001200913
8328	$2^3.3.347$	69355584	577593303552	91·2578764	20·2696806	·0001200768
8329	.....	69372241	577801395289	91·2633552	20·2704919	·0001200624
8330	$2\,5.7^2.17$	69388900	578009537000	91·2688337	20·2713031	·0001200480
8331	3.2777	69405561	578217728691	91·2743118	20·2721143	·0001200336
8332	$2^2.2083$	69422224	578425970368	91·2797896	20·2729254	·0001200192
8333	13.641	69438889	578634262037	91·2852671	20·2737364	·0001200048
8334	$2.3^3.463$	69455556	578842603704	91·2907443	20·2745473	·0001199904
8335	5.1667	69472225	579050995375	91·2962213	20·2753582	·0001199760
8336	$2^4.521$	69488896	579259437056	91·3016977	20·2761690	·0001199616
8337	3.7.397	69505569	579467928755	91·3071739	20·2769798	·0001199472
8338	2.11.379	69522244	579676470472	91·3126497	20·2777905	·0001199328
8339	31.269	69538921	579885062219	91·3181253	20·2786011	·0001199185

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8340	$2^2.3.5.139$	69555600	580093704000	91·3236005	20·2794117	·0001199041
8341	19.439	69572281	580302395821	91·3290753	20·2802222	·0001198697
8342	2.43.97	69588964	580511137688	91·3345499	20·2810326	·0001198753
8343	$3^4.103$	69605649	580719929607	91·3400241	20·2818430	·0001198610
8344	$2^3.7.149$	69622336	580928771584	91·3454980	20·2826533	·0001198466
8345	5.1669	69639025	581137663625	91·3509716	20·2834635	·0001198322
8346	2.3.13.107	69655716	581346605736	91·3564448	20·2842737	·0001198179
8347	17.491	69672409	581555597923	91·3619177	20·2850838	·0001198035
8348	$2^2.2087$	69689104	581764640192	91·3673903	20·2858938	·0001197892
8349	$3.11^2.23$	69705801	581973732549	91·3728625	20·2867038	·0001197748
8350	$2.5^2.167$	69722500	582182875000	91·3783345	20·2875137	·0001197605
8351	7.1193	69739201	582392067551	91·3838060	20·2883236	·0001197461
8352	$2^5.3^2.29$	69755904	582601310208	91·3892773	20·2891334	·0001197315
8353	.....	69772609	582810602977	91·3947482	20·2899431	·0001197175
8354	2.4177	69789316	583019945864	91·4002188	20·2907527	·0001197031
8355	3.5.557	69806025	583229338875	91·4056891	20·2915623	·0001196888
8356	$2^2.2089$	69822736	583438782016	91·4111591	20·2923718	·0001196745
8357	61.137	69839449	583648275293	91·4166287	20·2931813	·0001196602
8358	2.3.7.199	69856164	583857818712	91·4220980	20·2939907	·0001196458
8359	13.643	69872881	584067412279	91·4275670	20·2948000	·0001196315
8360	$2^3.5.11.19$	69889600	584277056000	91·4330356	20·2956093	·0001196172
8361	$3^2.929$	69906321	584486749881	91·4385039	20·2964185	·0001196029
8362	2.37.113	69923044	584696493928	91·4439719	20·2972277	·0001195886
8363	.....	69939769	584906288147	91·4494396	20·2980368	·0001195743
8364	$2^2.3.17.41$	69956496	585116132544	91·4549069	20·2988458	·0001195600
8365	5.7.239	69973225	585326027125	91·4603740	20·2996547	·0001195457
8366	2.47.89	69989956	585535971896	91·4658407	20·3004636	·0001195314
8367	3.2789	70006689	585745966863	91·4713070	20·3012724	·0001195172
8368	$2^4.523$	70023424	585956012032	91·4767730	20·3020811	·0001195029
8369	.....	70040161	586166107409	91·4822387	20·3028898	·0001194886
8370	$2.3^3.5.31$	70056900	586376253000	91·4877041	20·3036985	·0001194743
8371	11.761	70073641	586586448811	91·4931692	20·3045070	·0001194600
8372	$2^2.7.13.23$	70090384	586796694848	91·4986339	20·3053155	·0001194458
8373	3.2791	70107129	587006991117	91·5040983	20·3061239	·0001194315
8374	2.53.79	70123876	587217337624	91·5095624	20·3069323	·0001194172
8375	$5^3.67$	70140625	587427734375	91·5150261	20·3077406	·0001194030
8376	$2^3.3.349$	70157376	587638181376	91·5204896	20·3085488	·0001193887
8377	.....	70174129	587848678633	91·5259526	20·3093570	·0001193745
8378	2.59.71	70190884	588059226152	91·5314154	20·3101651	·0001193602
8379	$3^2.7^2.19$	70207641	588269823939	91·5368778	20·3109731	·0001193460
8380	$2^2.5.419$	70224400	588480472000	91·5423399	20·3117811	·0001193317
8381	$17^2.29$	70241161	588691170341	91·5478017	20·3125890	·0001193175
8382	2.3.11.127	70257924	588901918968	91·5532632	20·3133969	·0001193033
8383	83.101	70274689	589112717887	91·5587243	20·3142046	·0001192890
8384	$2^6.131$	70291456	589323567104	91·5641852	20·3150123	·0001192748
8385	3.5.13.43	70308225	589534466625	91·5696456	20·3158200	·0001192606
8386	2.7.599	70324996	589745416456	91·5751058	20·3166276	·0001192464
8387	.....	70341769	589956416603	91·5805656	20·3174351	·0001192321
8388	$2^2.3^2.233$	70358544	590167467072	91·5860251	20·3182426	·0001192179
8389	.....	70375321	590378567869	91·5914843	20·3190500	·0001192037
8390	2.5.839	70392100	590589719000	91·5969431	20·3198574	·0001191895
8391	3.2797	70408881	590800920471	91·6024016	20·3206646	·0001191753
8392	$2^3.1049$	70425664	591012172288	91·6078598	20·3214718	·0001191611
8393	7.11.109	70442449	591223474457	91·6133177	20·3222790	·0001191469
8394	2.3.1399	70459236	591434826984	91·6187753	20·3230861	·0001191327
8395	5.23.73	70476025	591646229875	91·6242325	20·3238931	·0001191185
8396	$2^2.2099$	70492816	591857683136	91·6296894	20·3247000	·0001191043
8397	$3^3.311$	70509609	592069186773	91·6351461	20·3255069	·0001190902
8398	2.13.17.19	70526404	592280740792	91·6406023	20·3263137	·0001190760
8399	37.227	70543201	592492345199	91·6460583	20·3271205	·0001190618

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8400	$2^4.3.5^2.7$	70560000	592704000000	91·6515139	20·3279272	·0001190476
8401	31.271	70576801	592915705201	91·6569691	20·3287339	·0001190334
8402	2.4201	70593604	593127460808	91·6624241	20·3295404	·0001190193
8403	3.2801	70610409	593339266827	91·6678787	20·3303469	·0001190051
8404	$2^2.11.191$	70627216	593551123264	91·6733331	20·3311534	·0001189910
8405	5.41^2	70644025	593763030125	91·6787871	20·3319598	·0001189768
8406	$2.3^2.467$	70660836	593974987416	91·6842407	20·3327661	·0001189626
8407	7.1201	70677649	594186995143	91·6896941	20·3335723	·0001189485
8408	$2^3.1051$	70694464	594399053312	91·6951471	20·3343785	·0001189343
8409	3.2803	70711281	594611161929	91·7005997	20·3351846	·0001189202
8410	$2.5.29^2$	70728100	594823321000	91·7060521	20·3359907	·0001189061
8411	13.647	70744921	595035530531	91·7115041	20·3367967	·0001188919
8412	$2^2.3.701$	70761744	595247790528	91·7169559	20·3376026	·0001188778
8413	47.179	70778569	595460100997	91·7224073	20·3384085	·0001188637
8414	2.7.601	70795396	595672461944	91·7278583	20·3392143	·0001188495
8415	$3^2.5.11.17$	70812225	595884873375	91·7333091	20·3400200	·0001188354
8416	$2^5.263$	70829056	596097335296	91·7387595	20·3408257	·0001188213
8417	19.443	70845889	596309847713	91·7442096	20·3416313	·0001188072
8418	2.3.23.61	70862724	596522410632	91·7496594	20·3424369	·0001187931
8419	.....	70879561	596735024059	91·7551088	20·3432423	·0001187790
8420	$2^2.5.421$	70896400	596947688000	91·7605580	20·3440478	·0001187648
8421	3.7.401	70913241	597160402461	91·7660068	20·3448531	·0001187507
8422	2.4211	70930084	597373167448	91·7714553	20·3456584	·0001187366
8423	.....	70946929	597585982967	91·7769034	20·3464637	·0001187225
8424	$2^3.3^4.13$	70963776	597798849024	91·7823513	20·3472688	·0001187085
8425	$5^2.337$	70980625	598011765625	91·7877988	20·3480739	·0001186944
8426	2.11.383	70997476	598224732776	91·7932460	20·3488789	·0001186803
8427	3.53^2	71014329	598437750483	91·7986928	20·3496839	·0001186662
8428	$2^2.7^2.43$	71031184	598650818752	91·8041394	20·3504888	·0001186521
8429	.....	71048041	598863937589	91·8095856	20·3512937	·0001186380
8430	2.3.5.281	71064900	599077107000	91·8150315	20·3520984	·0001186240
8431	.....	71081761	599290326991	91·8204770	20·3529032	·0001186099
8432	$2^4.17.31$	71098624	599503597568	91·8259223	20·3537078	·0001185958
8433	$3^2.937$	71115489	599716918737	91·8313672	20·3545124	·0001185818
8434	2.4217	71132356	599930290504	91·8368118	20·3553169	·0001185677
8435	5.7.241	71149225	600143712875	91·8422561	20·3561214	·0001185536
8436	$2^2.3.19.37$	71166096	600357185856	91·8477000	20·3569257	·0001185396
8437	11.13.59	71182969	600570709453	91·8531436	20·3577301	·0001185255
8438	2.4219	71199844	600782283672	91·8585869	20·3585343	·0001185115
8439	3.29.97	71216721	600997908519	91·8640299	20·3593386	·0001184975
8440	$2^3.5.211$	71233600	601211584000	91·8694726	20·3601427	·0001184834
8441	23.367	71250481	601425310121	91·8749150	20·3609468	·0001184694
8442	$2.3^2.7.67$	71267364	601639086888	91·8803570	20·3617508	·0001184553
8443	.....	71284249	601852914307	91·8857987	20·3625547	·0001184413
8444	$2^2.2111$	71301136	602066792384	91·8912400	20·3633586	·0001184273
8445	3.5.563	71318025	602280721125	91·8966811	20·3641624	·0001184133
8446	2.41.103	71334916	602494700536	91·9021218	20·3649662	·0001183992
8447	.....	71351809	602708730623	91·9075622	20·3657699	·0001183852
8448	$2^6.3.11$	71368704	602922811392	91·9130023	20·3665735	·0001183712
8449	7.17.71	71385601	603136942849	91·9184421	20·3673771	·0001183572
8450	$2.5^2.13^2$	71402500	603351225000	91·9238815	20·3681806	·0001183432
8451	$3^3.313$	71419401	603565357851	91·9293207	20·3689840	·0001183292
8452	$2^2.2113$	71436304	603779641408	91·9347595	20·3697874	·0001183152
8453	79.107	71453209	603993975677	91·9401979	20·3705907	·0001183012
8454	2.3.1409	71470116	604208360664	91·9456361	20·3713940	·0001182872
8455	5.19.89	71487025	604422796375	91·9510739	20·3721972	·0001182732
8456	$2^3.7.151$	71503936	604637282816	91·9565114	20·3730003	·0001182592
8457	3.2819	71520849	604851819993	91·9619486	20·3738034	·0001182452
8458	2.4229	71537764	605066407912	91·9673855	20·3746064	·0001182313
8459	11.769	71554681	605281046579	91·9728220	20·3754093	·0001182173

Numb.	Factors	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8580	$2^2.3.5.11.13$	73616400	631628712000	92·6282894	20·4721016	·0001165501
8581	.....	73633561	631849586941	92·6336871	20·4728969	·0001165365
8582	2.7.613	73650724	632070513368	92·6390846	20·4736922	·0001165230
8583	3.2861	73667889	632291491287	92·6444817	20·4744874	·0001165094
8584	$2^3.29.37$	73685056	632512520704	92·6498786	20·4752825	·0001164958
8585	5.17.101	73702225	632733601625	92·6552751	20·4760776	·0001164822
8586	$2.3^4.53$	73719396	632954734056	92·6606713	20·4768726	·0001164687
8587	31.277	73736569	633175918003	92·6660671	20·4776675	·0001164551
8588	$2^2.19.113$	73753744	633397153472	92·6714627	20·4784624	·0001164415
8589	3.7.409	73770921	633618440469	92·6768579	20·4792572	·0001164280
8590	2·5.859	73788100	633839779000	92·6822528	20·4800520	·0001164144
8591	$11^2.71$	73805281	634061169071	92·6876475	20·4808467	·0001164009
8592	$2^4.3.179$	73822464	634282610688	92·6930418	20·4816413	·0001163873
8593	13.661	73839649	634504103857	92·6984358	20·4824359	·0001163738
8594	2.4297	73856836	634725648584	92·7038295	20·4832304	·0001163603
8595	$3^2.5.191$	73874025	634947244875	92·7092228	20·4840248	·0001163467
8596	$2^2.7.307$	73891216	635168892736	92·7146159	20·4848192	·0001163332
8597	.....	73908409	635390592173	92·7200086	20·4856136	·0001163197
8598	2.3.1433	73925604	635612343192	92·7254010	20·4864078	·0001163061
8599	.....	73942801	635834145799	92·7307931	20·4872020	·0001162926
8600	$2^3.5^2.43$	73960000	636056000000	92·7361849	20·4879962	·0001162791
8601	3.47.61	73977201	636277905801	92·7415764	20·4887902	·0001162656
8602	2.11.17.23	73994404	636499863208	92·7469676	20·4895842	·0001162520
8603	7.1229	74011609	636721872227	92·7523585	20·4903782	·0001162385
8604	$2^2.3^2.239$	74028816	636943932864	92·7577490	20·4911721	·0001162250
8605	5.1721	74046025	637166045125	92·7631392	20·4919659	·0001162115
8606	2.13.331	74063236	637388209016	92·7685291	20·4927597	·0001161980
8607	3.19.151	74080449	637610424543	92·7739187	20·4935534	·0001161845
8608	$2^5.269$	74097664	637832691712	92·7793080	20·4943471	·0001161710
8609	.....	74114881	638055010529	92·7846970	20·4951407	·0001161575
8610	2.3.5.7.41	74132100	638277381000	92·7900857	20·4959342	·0001161440
8611	79.109	74149321	638499803131	92·7954740	20·4967276	·0001161305
8612	$2^2.2153$	74166544	638722276928	92·8008621	20·4975210	·0001161170
8613	$3^3.11.29$	74183769	638944802397	92·8062498	20·4983144	·0001161036
8614	2.59.73	74200996	639167379544	92·8116372	20·4991077	·0001160901
8615	5.1723	74218225	639390008375	92·8170243	20·4999009	·0001160766
8616	$2^3.3.359$	74235456	639612688896	92·8224111	20·5006941	·0001160631
8617	7.1231	74252689	639835421113	92·8277975	20·5014872	·0001160497
8618	$2^2.31.139$	74269924	640058205032	92·8331837	20·5022802	·0001160362
8619	$3.13^2.17$	74287161	640281040659	92·8385695	20·5030732	·0001160227
8620	$2^2.5.431$	74304400	640503928000	92·8439551	20·5038661	·0001160093
8621	37.233	74321641	640726867061	92·8493403	20·5046589	·0001159958
8622	$2.3^2.479$	74338884	640949857848	92·8547252	20·5054517	·0001159824
8623	.....	74356129	641172900367	92·8601098	20·5062444	·0001159689
8624	$2^4.7^2.11$	74373376	641395994624	92·8654941	20·5070371	·0001159555
8625	$3.5^3.23$	74390625	641619140625	92·8708781	20·5078297	·0001159420
8626	2.19.227	74407876	641842338376	92·8762617	20·5086222	·0001159286
8627	.....	74425129	642065587883	92·8816451	20·5094147	·0001159152
8628	$2^2.3.719$	74442384	642288889152	92·8870281	20·5102071	·0001159017
8629	.....	74459641	642512242189	92·8924109	20·5109995	·0001158883
8630	2.5.863	74476900	642735647000	92·8977933	20·5117918	·0001158749
8631	$3^2.7.137$	74494161	642959103591	92·9031754	20·5125840	·0001158614
8632	$2^3.13.83$	74511424	643182611968	92·9085572	20·5133762	·0001158480
8633	89.97	74528689	643406172137	92·9139387	20·5141683	·0001158346
8634	2.3.1439	74545956	643629784104	92·9193198	20·5149603	·0001158212
8635	5.11.157	74563225	643853447875	92·9247007	20·5157523	·0001158078
8636	$2^2.17.127$	74580496	644077163456	92·9300812	20·5165442	·0001157945
8637	3.2879	74597769	644300930853	92·9354614	20·5173361	·0001157809
8638	2.7.617	74615044	644524750072	92·9408414	20·5181279	·0001157675
8639	53.163	74632321	644748621119	92·9462210	20·5189196	·0001157541

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8640	$2^6.3^3.5$	74649600	644972544000	92·9516003	20·5197113	·0001157407
8641	.....	74666881	645196518721	92·9569793	20·5205030	·0001157273
8642	2.29.149	74684164	645420545288	92·9623580	20·5212945	·0001157140
8643	3.43.67	74701449	645644625707	92·9677363	20·5220860	·0001157006
8644	$2^2.2161$	74718736	645868753984	92·9731144	20·5228774	·0001156872
8645	5.7.13.19	74736025	646092936125	92·9784921	20·5236688	·0001156738
8646	2.3.11.131	74753316	646317170136	92·9838696	20·5244601	·0001156604
8647	.....	74770609	646541456023	92·9892467	20·5252514	·0001156470
8648	$2^3.23.47$	74787904	646765793792	92·9946235	20·5260426	·0001156337
8649	$3^3.31^2$	74805201	646990183449	93·0000000	20·5268337	·0001156203
8650	$2.5^2.173$	74822500	647214625000	93·0053760	20·5276248	·0001156069
8651	41.211	74839801	647439118451	93·0107521	20·5284158	·0001155936
8652	$2^2.3.7.103$	74857104	647663663808	93·0161276	20·5292068	·0001155802
8653	17.509	74874409	647888261077	93·0215029	20·5299977	·0001155669
8654	2.4327	74891716	648112910264	93·0268778	20·5307885	·0001155535
8655	3.5.577	74909025	648337611375	93·0322525	20·5315793	·0001155402
8656	$2^4.541$	74926336	648562364416	93·0376268	20·5323700	·0001155268
8657	11.787	74943649	648787169393	93·0430008	20·5331606	·0001155135
8658	$2.3^3.13.37$	74960964	649012026312	93·0483745	20·5339512	·0001155001
8659	7.1237	74978281	649236935179	93·0537479	20·5347417	·0001154868
8660	$2^2.5.433$	74995600	649461896000	93·0591210	20·5355322	·0001154734
8661	3.2887	75012921	649686908781	93·0644938	20·5363226	·0001154601
8662	2.61.71	75030244	649911973528	93·0698662	20·5371129	·0001154468
8663	.....	75047569	650137090247	93·0752384	20·5379032	·0001154335
8664	$2^3.3.19^2$	75064896	650362258944	93·0806102	20·5386934	·0001154201
8665	5.1733	75082225	650587479625	93·0859818	20·5394836	·0001154068
8666	2.7.619	75099556	650812752296	93·0913530	20·5402737	·0001153935
8667	$3^4.107$	75116889	651038076963	93·0967239	20·5410637	·0001153802
8668	$2^2.11.197$	75134224	651263453632	93·1020945	20·5418537	·0001153669
8669	.....	75151561	651488882309	93·1074648	20·5426436	·0001153536
8670	$2.3.5.17^2$	75168900	651714363000	93·1128348	20·5434335	·0001153403
8671	13.23.29	75186241	651939895711	93·1182045	20·5442233	·0001153270
8672	$2^3.271$	75203584	652165480448	93·1235738	20·5450130	·0001153137
8673	$3.7^2.59$	75220929	652391117217	93·1289429	20·5458027	·0001153004
8674	2.4337	75238276	652616806024	93·1343116	20·5465923	·0001152871
8675	$5^2.347$	75255625	652842546875	93·1396801	20·5473819	·0001152738
8676	$2^2.3^2.241$	75272976	653068339776	93·1450482	20·5481714	·0001152605
8677	.....	75290329	653294184733	93·1504160	20·5489608	·0001152472
8678	2.4339	75307684	653520081752	93·1557835	20·5497502	·0001152339
8679	3.11.263	75325041	653746030839	93·1611507	20·5505395	·0001152206
8680	$2^3.5.7.31$	75342400	653972032000	93·1665176	20·5513287	·0001152074
8681	.....	75359761	654198085241	93·1718842	20·5521179	·0001151941
8682	2.3.1447	75377124	654424190568	93·1772504	20·5529071	·0001151808
8683	19.457	75394489	654650347987	93·1826164	20·5536962	·0001151676
8684	$2^2.13.167$	75411856	654876557504	93·1879821	20·5544852	·0001151543
8685	$3^2.5.193$	75429225	655102819125	93·1933474	20·5552741	·0001151410
8686	2.43.101	75446596	655329132856	93·1987124	20·5560630	·0001151278
8687	7.17.73	75463969	655555498703	93·2040772	20·5568518	·0001151145
8688	$2^4.3.181$	75481344	655781916672	93·2094416	20·5576406	·0001151013
8689	.....	75498721	656008386769	93·2148057	20·5584293	·0001150880
8690	2.5.11.79	75516100	656234909000	93·2201695	20·5592179	·0001150748
8691	3.2897	75533481	656461483371	93·2255330	20·5600065	·0001150616
8692	$2^2.41.53$	75550864	656688109888	93·2308962	20·5607950	·0001150483
8693	.....	75568249	656914788557	93·2362590	20·5615835	·0001150350
8694	$2.3^2.7.23$	75585636	657141519384	93·2416216	20·5623719	·0001150219
8695	5.37.47	75603025	657368302375	93·2469839	20·5631602	·0001150086
8696	23.1087	75620416	657595137536	93·2523458	20·5639486	·0001149954
8697	3.13.223	75637809	657822024873	93·2577075	20·5647368	·0001149822
8698	2.4349	75655204	658048964392	93·2630688	20·5655250	·0001149690
8699	.....	75672601	658275956099	93·2684299	20·5663131	·0001149557

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8700	$2^2.3.5^2.29$	75690000	658503000000	93·2737906	20·5671011	·0001149425
8701	7.11.113	75707401	658730096101	93·2791510	20·5678891	·0001149293
8702	2.19.229	75724804	658957244408	93·2845111	20·5686770	·0001149161
8703	$3^2.967$	75742209	659184444927	93·2898708	20·5694649	·0001149029
8704	$2^6.17$	75759616	659411697664	93·2952303	20·5702527	·0001148897
8705	5.1741	75777025	659639002625	93·3005895	20·5710405	·0001148765
8706	2.3.1451	75794436	659866359816	93·3059484	20·5718281	·0001148633
8707	.....	75811849	660093769243	93·3113069	20·5726158	·0001148501
8708	$2^2.7.311$	75829264	660321230912	93·3166652	20·5734033	·0001148369
8709	3.2903	75846681	660548744829	93·3220231	20·5741908	·0001148237
8710	2.5.13.67	75864100	660776311000	93·3273808	20·5749783	·0001148106
8711	31.281	75881521	661003929431	93·3327381	20·5757656	·0001147974
8712	$2^3.3^2.11^2$	75898944	661231600128	93·3380951	20·5765529	·0001147842
8713	.....	75916369	661459323097	93·3434518	20·5773402	·0001147710
8714	2.4357	75933796	661687098344	93·3488083	20·5781274	·0001147579
8715	3.5.7.83	75951225	661914925875	93·3541644	20·5789145	·0001147447
8716	$2^2.2179$	75968656	662142805696	93·3595202	20·5797016	·0001147315
8717	23.379	75986089	662370737813	93·3648757	20·5804886	·0001147184
8718	2.3.1453	76003524	662598722232	93·3702308	20·5812756	·0001147052
8719	.....	76020961	662826758959	93·3755857	20·5820625	·0001146921
8720	$2^4.5.109$	76038400	663054848000	93·3809403	20·5828493	·0001146789
8721	$3^2.17.19$	76055841	663282989361	93·3862945	20·5836361	·0001146657
8722	$2.7^2.89$	76073284	663511183048	93·3916485	20·5844228	·0001146526
8723	11.13.61	76090729	663739429067	93·3970021	20·5852095	·0001146395
8724	$2^2.3.727$	76108176	663967749424	93·4023554	20·5859961	·0001146263
8725	$5^2.349$	76125625	664196078125	93·4077085	20·5867826	·0001146132
8726	2.4363	76143076	664424481176	93·4130612	20·5875691	·0001146000
8727	3.2909	76160529	664652936583	93·4184136	20·5883555	·0001145869
8728	$2^3.1091$	76177984	664881444352	93·4237657	20·5891419	·0001145738
8729	7.29.43	76195441	665110004489	93·4291175	20·5899282	·0001145607
8730	$2.3^2.5.97$	76212900	665338617000	93·4344690	20·5907144	·0001145475
8731	.....	76230361	665567281891	93·4398202	20·5915006	·0001145344
8732	$2^2.37.59$	76247824	665795999168	93·4451711	20·5922867	·0001145213
8733	3.41.71	76265289	666024768837	93·4505217	20·5930728	·0001145082
8734	2.11.397	76282756	666253590904	93·4558720	20·5938588	·0001144951
8735	5.1747	76300225	666482465375	93·4612220	20·5946447	·0001144820
8736	$2^3.3.7.13$	76317696	666711392256	93·4665716	20·5954306	·0001144689
8737	.....	76335169	666940371553	93·4719210	20·5962164	·0001144558
8738	2.17.257	76352644	667169403272	93·4772700	20·5970021	·0001144427
8739	$3^2.971$	76370121	667398487419	93·4826187	20·5977878	·0001144296
8740	$2^2.5.19.23$	76387600	667627624000	93·4879672	20·5985735	·0001144165
8741	.....	76405081	667856813021	93·4933153	20·5993591	·0001144034
8742	2.3.31.47	76422564	668086054488	93·4986631	20·6001446	·0001143903
8743	7.1249	76440049	668315348407	93·5040106	20·6009300	·0001143772
8744	$2^3.1093$	76457536	668544694784	93·5093579	20·6017154	·0001143641
8745	3.5.11.53	76475025	668774093625	93·5147048	20·6025008	·0001143511
8746	2.4373	76492516	669003544936	93·5200513	20·6032860	·0001143380
8747	.....	76510009	669233048723	93·5253976	20·6040713	·0001143249
8748	$2^2.37$	76527504	669462604992	93·5307436	20·6048564	·0001143118
8749	43.673	76545001	669692213749	93·5360893	20·6056415	·0001142988
8750	$2.5^4.7$	76561500	669921875000	93·5414346	20·6064266	·0001142857
8751	3.2917	76580001	670151588751	93·5467797	20·6072115	·0001142727
8752	$2^4.547$	76597504	670381355008	93·5521244	20·6079964	·0001142596
8753	.....	76615009	670611173777	93·5574689	20·6087813	·0001142465
8754	2.3.1459	76632516	670841045064	93·5628131	20·6095661	·0001142335
8755	5.17.103	76650025	671070968875	93·5681569	20·6103508	·0001142204
8756	$2^2.11.199$	76667536	671300945216	93·5735005	20·6111355	·0001142074
8757	$3^2.7.139$	76685049	671530974093	93·5788438	20·6119201	·0001141944
8758	2.29.151	76702564	671761055512	93·5841867	20·6127047	·0001141813
8759	19.461	76720081	671991189479	93·5895293	20·6134892	·0001141683

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8760	$2^3.3.5.73$	76737600	672221376000	93·5948716	20·6142796	·0001141553
8761	.....	76755121	672451615081	93·6002136	20·6150580	·0001141422
8762	2.13.337	76772644	672681906728	93·6055553	20·6158423	·0001141292
8763	3.23.127	76790169	672912250947	93·6108967	20·6166266	·0001141162
8764	$2^2.7.313$	76807696	673142647744	93·6162379	20·6174108	·0001141031
8765	5.1753	76825225	673373097125	93·6215787	20·6181949	·0001140901
8766	$2.3^2.487$	76842756	673603599096	93·6269192	20·6189790	·0001140771
8767	11.797	76860289	673834153663	93·6322594	20·6197630	·0001140641
8768	$2^6.137$	76877824	674064760832	93·6375993	20·6205470	·0001140511
8769	3.37.79	76895361	674295420609	93·6429388	20·6213309	·0001140381
8770	2.5.877	76912900	674526133000	93·6482781	20·6221147	·0001140251
8771	$7^2.179$	76930441	674756898011	93·6536171	20·6228985	·0001140121
8772	$2^2.3.17^2.43$	76947984	674987715648	93·6589558	20·6236822	·0001139991
8773	31.283	76965529	675218585917	93·6642942	20·6244659	·0001139861
8774	2.41.107	76983076	675449508824	93·6696322	20·6252495	·0001139731
8775	$3^2.5^2.13$	77000625	675680484375	93·6749700	20·6260330	·0001139601
8776	$2^3.1097$	77018176	675911512576	93·6803074	20·6268165	·0001139471
8777	67.131	77035729	676142593433	93·6856446	20·6275999	·0001139341
8778	2.3.7.11.19	77053284	676373726952	93·6909814	20·6283833	·0001139212
8779	.....	77070841	676604913139	93·6963179	20·6291666	·0001139082
8780	$2^2.5.439$	77088400	676836152000	93·7016542	20·6299499	·0001138952
8781	3.2927	77105961	677067443541	93·7069901	20·6307331	·0001138823
8782	2.4391	77123524	677298787768	93·7123258	20·6315162	·0001138693
8783	.....	77141089	677530184687	93·7176611	20·6322993	·0001138563
8784	$2^4.3^2.61$	77158656	677761634304	93·7229961	20·6330823	·0001138434
8785	5.7.251	77176225	677993136625	93·7283308	20·6338652	·0001138304
8786	2.23.191	77193796	678224691656	93·7336652	20·6346481	·0001138174
8787	3.29.101	77211369	678456299403	93·7389993	20·6354310	·0001138045
8788	$2^2.13^3$	77228944	678687959872	93·7443331	20·6362137	·0001137915
8789	11.17.47	77246521	678919673069	93·7496666	20·6369964	·0001137786
8790	2.3.5.293	77264100	679151439000	93·7549998	20·6377791	·0001137656
8791	59.149	77281681	679383257671	93·7603327	20·6385617	·0001137527
8792	$2^3.7.157$	77299264	679615129088	93·7656653	20·6393442	·0001137398
8793	$3^2.977$	77316849	679847053257	93·7709976	20·6401267	·0001137268
8794	2.4397	77334436	680079030184	93·7763296	20·6409091	·0001137139
8795	5.1759	77352025	680311059875	93·7816613	20·6416915	·0001137010
8796	$2^2.3.733$	77369616	680543142336	93·7869927	20·6424738	·0001136880
8797	19.463	77387209	680775277573	93·7923238	20·6432560	·0001136751
8798	2.53.83	77404804	681007465592	93·7976545	20·6440382	·0001136622
8799	3.7.419	77422401	681239706399	93·8029850	20·6448203	·0001136493
8800	$2^3.5^2.11$	77440000	681472000000	93·8083152	20·6456024	·0001136364
8801	13.677	77457601	681704346401	93·8136451	20·6463844	·0001136235
8802	$2.3^2.163$	77475204	681936745608	93·8189746	20·6471663	·0001136105
8803	.....	77492809	682169197627	93·8243039	20·6479482	·0001135976
8804	$2^2.31.71$	77510416	682401702464	93·8296328	20·6487300	·0001135847
8805	3.5.587	77528025	682634260125	93·8349615	20·6495118	·0001135718
8806	2.7.17.37	77545636	682866870616	93·8402898	20·6502935	·0001135589
8807	.....	77563249	683099533943	93·8456179	20·6510752	·0001135460
8808	$2^3.3.367$	77580864	683332250112	93·8509456	20·6518568	·0001135332
8809	23.383	77598481	683565019129	93·8562731	20·6526383	·0001135203
8810	2.5.881	77616100	683797841000	93·8616002	20·6534198	·0001135074
8811	$3^2.11.89$	77633721	684030715731	93·8669271	20·6542012	·0001134945
8812	$2^2.2203$	77651344	684263643328	93·8722536	20·6549825	·0001134816
8813	7.1259	77668969	684496623797	93·8775798	20·6557638	·0001134687
8814	2.3.13.113	77686596	684729657144	93·8829058	20·6565450	·0001134559
8815	5.41.43	77704225	684962743375	93·8882314	20·6573262	·0001134430
8816	$2^4.19.29$	77721856	685195882496	93·8935567	20·6581073	·0001134301
8817	3.2939	77739489	685429074513	93·8988818	20·6588884	·0001134173
8818	2.4409	77757124	685662319432	93·9042065	20·6596694	·0001134044
8819	.....	77774761	685895617259	93·9095309	20·6604503	·0001133915

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8820	$2^2.3^2.5.7^2$	77792400	686128968000	93·9148550	20·6612312	·0001133787
8821	.....	77810041	686362371661	93·9201789	20·6620120	·0001133658
8822	2.11.401	77827684	686595828248	93·9255024	20·6627927	·0001133530
8823	3.17.173	77845329	686829337767	93·9308256	20·6635734	·0001133401
8824	$2^3.1103$	77862976	687062900224	93·9361485	20·6643541	·0001133273
8825	$5^2.353$	77880625	687296515625	93·9414711	20·6651347	·0001133144
8826	2.3.1471	77898276	687530183976	93·9467934	20·6659152	·0001133016
8827	7.13.97	77915929	687763905283	93·9521154	20·6666956	·0001132888
8828	$2^2.2207$	77933584	687997679552	93·9574371	20·6674760	·0001132759
8829	$3^4.109$	77951241	688231506789	93·9627586	20·6682564	·0001132631
8830	2.5.883	77968900	688465387000	93·9680797	20·6690367	·0001132503
8831	.....	77986561	688699320191	93·9734005	20·6698169	·0001132375
8832	2⁷.3.23	78004224	68893306368	93·9787210	20·6705970	·0001132246
8833	$11^2.73$	78021889	689167345537	93·9840412	20·6713772	·0001132118
8834	2.7.631	78039556	689401437704	93·9893611	20·6721572	·0001131990
8835	3.5.19.31	78057225	689635582875	93·9946807	20·6729372	·0001131862
8836	$2^2.47^2$	78074896	689869781056	94·0000000	20·6737171	·0001131734
8837	.....	78092569	690104032253	94·0053190	20·6744970	·0001130606
8838	$2.3^2.491$	78110244	690338336472	94·0106377	20·6752768	·0001131478
8839	.....	78127921	690572693719	94·0159561	20·6760566	·0001131350
8840	$2^3.5.13.17$	78145600	690807104000	94·0212742	20·6768362	·0001131222
8841	3.7.421	78163281	691041567321	94·0265920	20·6776159	·0001131094
8842	2.4421	78180964	691276083688	94·0319095	20·6783954	·0001130966
8843	37.239	78198649	691510653107	94·0372266	20·6791750	·0001130838
8844	$2^2.3.11.67$	78216336	691745275584	94·0425435	20·6799544	·0001130710
8845	5.29.61	78234025	691979951125	94·0478601	20·6807338	·0001130582
8846	2.4423	78251716	692214679736	94·0531764	20·6815132	·0001130454
8847	$3^2.983$	78269409	692449461423	94·0584924	20·6822924	·0001130327
8848	$2^4.7.79$	78287104	692684296192	94·0638081	20·6830717	·0001130199
8849	.....	78304801	692919184049	94·0691235	20·6838508	·0001130071
8850	$2.3.5^2.59$	78322500	693154125000	94·0744386	20·6846299	·0001129944
8851	53.167	78340201	693389119051	94·0797534	20·6854090	·0001129816
8852	$2^2.2213$	78357904	693624166208	94·0850679	20·6861880	·0001129688
8853	3.13.227	78375609	693859266477	94·0903821	20·6869669	·0001129561
8854	2.19.233	78393316	694094419864	94·0956960	20·6877458	·0001129433
8855	5.7.11.23	78411025	694329626375	94·1010096	20·6885246	·0001129305
8856	$2^3.3^3.41$	78428736	694564886016	94·1063228	20·6893054	·0001129178
8857	17.521	78446449	694800198793	94·1116358	20·6900821	·0001129050
8858	2.43.103	78464164	695035564712	94·1169485	20·6908607	·0001128923
8859	3.2953	78481881	695270983779	94·1222609	20·6916393	·0001128796
8860	$2^2.5.443$	78499600	695506456000	94·1275730	20·6924178	·0001128668
8861	.....	78517321	695741981381	94·1328848	20·6931963	·0001128541
8862	2.3.7.211	78535044	695977559928	94·1381963	20·6939747	·0001128413
8863	.....	78552769	696213191647	94·1435075	20·6947530	·0001128286
8864	$2^6.277$	78570496	696448876544	94·1488184	20·6955313	·0001128159
8865	$3^2.5.197$	78588225	696684614625	94·1541290	20·6963096	·0001128032
8866	2.11.13.31	78605956	696920405896	94·1594392	20·6970877	·0001127904
8867	.....	78623689	697156250363	94·1647492	20·6978659	·0001127777
8868	$2^2.3.739$	78641424	697392148032	94·1700589	20·6986439	·0001127650
8869	$7^2.181$	78659161	697628098909	94·1753683	20·6994219	·0001127523
8870	2.5.887	78676900	697864103000	94·1806774	20·7001999	·0001127396
8871	3.2957	78694641	698100160311	94·1859862	20·7009777	·0001127269
8872	$2^3.1109$	78712384	698336270848	94·1912947	20·7017555	·0001127142
8873	19.467	78730129	698572434617	94·1966029	20·7025335	·0001127015
8874	$2.3^2.17.29$	78747876	698808651624	94·2019108	20·7033110	·0001126889
8875	$5^3.71$	78765625	699044921875	94·2072184	20·7040887	·0001126761
8876	$2^2.7.317$	78783376	699281245376	94·2125257	20·7048663	·0001126634
8877	3.11.269	78801129	699517622133	94·2178327	20·7056438	·0001126507
8878	2.23.193	78818884	699754052152	94·2231394	20·7064213	·0001126380
8879	13.683	78836641	699990535439	94·2284458	20·7071987	·0001126253

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8880	$2^4.3.5.37$	78854400	700227072000	94·2337519	20·7079760	·0001126126
8881	83.107	78872161	700463661841	94·2390577	20·7087533	·0001125999
8882	2.4441	78889924	700700304968	94·2443632	20·7095306	·0001125873
8883	$3^2.7.47$	78907689	700937001387	94·2496684	20·7103077	·0001125746
8884	$2^2.2221$	78925456	701173751104	94·2549734	20·7110849	·0001125619
8885	5.1777	78943225	701410554125	94·2602780	20·7118619	·0001125492
8886	2.3.1481	78960996	701647410456	94·2655823	20·7126389	·0001125366
8887	.....	78978769	701884320103	94·2708863	20·7134159	·0001125239
8888	$2^3.11.101$	78996544	702121283072	94·2761900	20·7141928	·0001125113
8889	3.2963	79014321	702358299369	94·2814934	20·7149696	·0001124986
8890	2.5.7.127	79032100	702595369000	94·2867965	20·7157464	·0001124859
8891	17.523	79049881	702832491971	94·2920994	20·7165231	·0001124733
8892	$2^2.3^2.13.19$	79067664	703069668288	94·2974019	20·7172998	·0001124606
8893	.....	79085449	703306897957	94·3027041	20·7180764	·0001124480
8894	2.4447	79103236	703544180984	94·3080060	20·7188529	·0001124353
8895	3.5.593	79121025	703781517375	94·3133077	20·7196294	·0001124227
8896	$2^6.139$	79138816	704018907136	94·3186090	20·7204058	·0001124101
8897	7.31.41	79156609	704256350273	94·3239100	20·7211822	·0001123974
8898	2.3.1483	79174404	704493846792	94·3292108	20·7219585	·0001123848
8899	11.809	79192201	704731396699	94·3345112	20·7227348	·0001123775
8900	$2^2.5^2.89$	79210000	704969000000	94·3398113	20·7235110	·0001123596
8901	$3^2.23.43$	79227801	705206656701	94·3451112	20·7242871	·0001123469
8902	2.4451	79245604	705444366808	94·3504107	20·7250632	·0001123343
8903	29.307	79263409	705682130327	94·3557100	20·7258392	·0001123217
8904	$2^3.3.7.53$	79281216	705919947264	94·3610089	20·7266151	·0001123091
8905	5.13.137	79299025	706157817625	94·3663076	20·7273910	·0001122965
8906	2.61.73	79316836	706395741416	94·3716059	20·7281668	·0001122839
8907	3.2969	79334649	706633718643	94·3769040	20·7289426	·0001122712
8908	$2^2.17.131$	79352464	706871749312	94·3822017	20·7297183	·0001122586
8909	59.151	79370281	707109833429	94·3874992	20·7304940	·0001122460
8910	$2.3^4.5.11$	79388100	707347971000	94·3927963	20·7312696	·0001122334
8911	7.19.67	79405921	707586162031	94·3980932	20·7320452	·0001122209
8912	$2^4.557$	79423744	707824406528	94·4033898	20·7328207	·0001122083
8913	3.2971	79441569	708062704497	94·4086861	20·7335961	·0001121957
8914	2.4457	79459396	708301055944	94·4139821	20·7343715	·0001121831
8915	5.1783	79477225	708539460875	94·4192777	20·7351468	·0001121705
8916	$2^2.3.743$	79495056	708777919296	94·4245731	20·7359221	·0001121579
8917	37.241	79512889	709016431213	94·4298682	20·7366973	·0001121453
8918	2.73.13	79530724	709254996632	94·4351630	20·7374724	·0001121328
8919	$3^3.991$	79548561	709493615559	94·4404574	20·7382475	·0001121202
8920	$2^3.5.223$	79566400	709732288000	94·4457516	20·7390225	·0001121076
8921	11.811	79584241	709971013961	94·4510456	20·7397975	·0001120951
8922	2.3.1487	79602084	710209793448	94·4563392	20·7405724	·0001120825
8923	.....	79619929	710448626467	94·4616325	20·7413473	·0001120699
8924	$2^2.23.97$	79637776	710687513024	94·4669255	20·7421221	·0001120574
8925	$3.5^2.7.17$	79655625	710926453125	94·4722182	20·7428968	·0001120448
8926	2.4463	79673476	711165446776	94·4775106	20·7436715	·0001120323
8927	79.113	79691329	711404493983	94·4828027	20·7444461	·0001120197
8928	$2^5.3^2.31$	79709184	711643594752	94·4880945	20·7452207	·0001120072
8929	.....	79727041	711882749089	94·4933860	20·7459952	·0001119946
8930	2.5.19.47	79744900	712121957000	94·4986773	20·7467697	·0001119821
8931	3.13.229	79762761	712361218491	94·5039682	20·7475441	·0001119695
8932	$2^2.7.11.29$	79780624	712600533568	94·5092588	20·7483184	·0001119570
8933	.....	79798489	712839902237	94·5145492	20·7490927	·0001119445
8934	2.3.1489	79816356	713079324504	94·5198392	20·7498669	·0001119319
8935	5.1787	79834225	713318800375	94·5251289	20·7506411	·0001119194
8936	$2^3.1117$	79852096	713558329856	94·5304184	20·7514151	·0001119069
8937	$3^3.331$	79869969	713797912953	94·5357075	20·7521892	·0001118944
8938	2.41.109	79887844	714037549672	94·5409964	20·7529632	·0001118819
8939	7.1277	79905721	714277240019	94·5462850	20·7537371	·0001118693

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
8940	$2^2.3.5.149$	79923600	714516984000	94·5515733	20·7545110	·0001118568
8941	.....	79941481	714756781621	94·5568618	20·7552848	·0001118443
8942	2.17.263	79959364	714996632888	94·5621489	20·7560586	·0001118318
8943	3.11.271	79977249	715236537807	94·5674363	20·7568323	·0001118193
8944	$2^4.13.43$	79995136	715476496384	94·5727234	20·7576059	·0001118068
8945	5.1789	80013025	715716508625	94·5780102	20·7583795	·0001117943
8946	$2.3^2.7.71$	80030916	715956574536	94·5832966	20·7591530	·0001117818
8947	23.389	80048809	716196694123	94·5885828	20·7599265	·0001117693
8948	$2^2.2237$	80066704	716436867392	94·5938687	20·7606999	·0001117568
8949	3.19.157	80084601	716677094349	94·5991543	20·7614733	·0001117443
8950	$2.5^2.179$	80102500	716917375000	94·6044396	20·7622465	·0001117318
8951	.....	80120401	717157709351	94·6097246	20·7630198	·0001117194
8952	$2^3.3.373$	80138304	717398097408	94·6150094	20·7637930	·0001117069
8953	7.1279	80156209	717638539177	94·6202938	20·7645661	·0001116944
8954	$2.11^2.37$	80174116	717879034664	94·6255779	20·7653392	·0001116819
8955	$3^2.5.199$	80192025	718119583875	94·6308618	20·7661122	·0001116695
8956	$2^2.2239$	80209936	718360186816	94·6361453	20·7668852	·0001116570
8957	$13^2.53$	80227849	718600843493	94·6414285	20·7676581	·0001116445
8958	2.3.1493	80245764	718841553912	94·6467115	20·7684309	·0001116321
8959	$17^2.31$	80263681	719082318079	94·6519941	20·7692037	·0001116196
8960	$2^6.5.7$	80281600	719323136000	94·6572765	20·7699764	·0001116071
8961	3.29.103	80299521	719564007681	94·6625585	20·7707491	·0001115947
8962	2.4481	80317444	719804933128	94·6678403	20·7715217	·0001115822
8963	.....	80335369	720045912347	94·6731218	20·7722942	·0001115698
8964	$2^2.3^2.83$	80353296	720286945344	94·6784030	20·7730667	·0001115573
8965	5.11.163	80371225	720528032125	94·6836839	20·7738392	·0001115449
8966	2.4483	80389156	720769172696	94·6889645	20·7746115	·0001115325
8967	$3.7^2.61$	80407089	721010367063	94·6942448	20·7753838	·0001115200
8968	$2^3.19.59$	80425024	721251615232	94·6995248	20·7761561	·0001115076
8969	.....	80442961	721492917209	94·7048045	20·7769283	·0001114951
8970	$2.3.5.13.23$	80460900	721734273000	94·7100839	20·7777005	·0001114827
8971	.....	80478841	721975682611	94·7153630	20·7784726	·0001114703
8972	$2^2.2243$	80496784	722217146048	94·7206419	20·7792446	·0001114579
8973	$3^2.997$	80514729	722458663317	94·7259204	20·7800166	·0001114454
8974	2.7.641	80532676	722700234424	94·7311986	20·7807885	·0001114330
8975	$5^2.359$	80550625	722941859375	94·7364766	20·7815603	·0001114206
8976	$2^4.3.11.17$	80568576	723183538176	94·7417542	20·7823321	·0001114082
8977	47.191	80586529	723425270833	94·7470316	20·7831039	·0001113958
8978	2.67^2	80604484	723667057352	94·7523086	20·7838756	·0001113834
8979	3.41.73	80622441	723908897739	94·7575854	20·7846472	·0001113710
8980	$2^2.5.449$	80640400	724150792000	94·7628619	20·7854188	·0001113586
8981	7.1283	80658361	724392740141	94·7681381	20·7861903	·0001113462
8982	$2.3^2.499$	80676324	724634742168	94·7734140	20·7869618	·0001113338
8983	13.691	80694289	724876798087	94·7786896	20·7877332	·0001113214
8984	$2^3.1123$	80712256	725118907904	94·7839649	20·7885045	·0001113090
8985	3.5.599	80730225	725361071625	94·7892399	20·7892758	·0001112966
8986	2.4493	80748196	725603289256	94·7945146	20·7900471	·0001112842
8987	11.19.43	80766169	725845560803	94·7997890	20·7908182	·0001112718
8988	$2^2.3.7.107$	80784144	726087886272	94·8050631	20·7915894	·0001112595
8989	89.101	80802121	726330265669	94·8103370	20·7923604	·0001112471
8990	2.5.29.31	80820100	726572699000	94·8156105	20·7931314	·0001112347
8991	$3^2.37$	80838081	726815186271	94·8208838	20·7939024	·0001112223
8992	$2^5.281$	80856064	727057727488	94·8261567	20·7946732	·0001112100
8993	17.23^2	80874049	727300322657	94·8314294	20·7954441	·0001111976
8994	2.3.1499	80892036	727542971784	94·8367017	20·7962149	·0001111852
8995	5.7.257	80910025	727785674875	94·8419738	20·7969856	·0001111729
8996	$2^2.13.173$	80928016	728028431936	94·8472456	20·7977562	·0001111605
8997	3.2999	80946009	728271242973	94·8525171	20·7985268	·0001111482
8998	2.11.409	80964004	728514107992	94·8577883	20·7992974	·0001111358
8999	.....	80982001	728757026999	94·8630592	20·8000679	·0001111234

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9000	$2^3.3^2.5^3$	81000000	729000000000	94·8683298	20·8008383	·0001111111
9001	.....	81018001	729243027001	94·8756001	20·8016087	·0001110988
9002	2.7.643	81036004	729486108008	94·8788701	20·8023790	·0001110864
9003	3.3001	81054009	729729243027	94·8841399	20·8031493	·0001110741
9004	$2^2.2251$	81072016	729972432064	94·8894093	20·8039195	·0001110618
9005	5.1801	81090025	730215675125	94·8946785	20·8046896	·0001110494
9006	2.3.19.79	81108036	730458972216	94·8999473	20·8054597	·0001110371
9007	.....	81126049	730702323343	94·9052159	20·8062297	·0001110248
9008	$2^4.563$	81144064	730945728512	94·9104841	20·8069997	·0001110124
9009	$3^2.7.11.13$	81162081	731189187729	94·9157521	20·8077696	·0001110001
9010	2.5.17.53	81180100	731432701000	94·9210198	20·8085395	·0001109878
9011	.....	81198121	731676268331	94·9262872	20·8093093	·0001109755
9012	$2^2.3.751$	81216144	731919889728	94·9315542	20·8100790	·0001109632
9013	.....	81234169	732163565197	94·9368210	20·8108487	·0001109508
9014	2.4507	81252196	732407294744	94·9420876	20·8116183	·0001109385
9015	3.5.601	81270225	732651078375	94·9473538	20·8123879	·0001109262
9016	$2^3.7^2.23$	81288256	732894916096	94·9526197	20·8131574	·0001109139
9017	71.127	81306289	733138807913	94·9578853	20·8139269	·0001109016
9018	$2.3^3.167$	81324324	733382753832	94·9631507	20·8146963	·0001108893
9019	29.311	81342361	733626753859	94·9684158	20·8154656	·0001108770
9020	$2^2.5.11.41$	81360400	733870808000	94·9736805	20·8162349	·0001108647
9021	3.31.97	81378441	734114916261	94·9789450	20·8170041	·0001108525
9022	2.13.347	81396484	734359078648	94·9842092	20·8177733	·0001108402
9023	7.1289	81414529	734603295167	94·9894731	20·8185424	·0001108280
9024	$2^6.3.47$	81432576	734847565824	94·9947367	20·8193115	·0001108156
9025	$5^2.19^2$	81450625	735091890625	95·0000000	20·8200805	·0001108033
9026	2.4513	81468676	735336269576	95·0052630	20·8208494	·0001107910
9027	$3^3.17.59$	81486729	735580702683	95·0105257	20·8216183	·0001107788
9028	$2^2.37.61$	81504784	735825189952	95·0157882	20·8223871	·0001107665
9029	.....	81522841	736069731389	95·0210503	20·8231559	·0001107542
9030	$2.3.5.7.43$	81540900	736314327000	95·0263121	20·8239246	·0001107420
9031	11.821	81558961	736558976791	95·0315737	20·8246933	·0001107297
9032	$2^3.1129$	81577024	736803680768	95·0368350	20·8254619	·0001107174
9033	3.3011	81595089	737048438937	95·0420959	20·8262305	·0001107052
9034	2.4517	81613156	737293251304	95·0473566	20·8269990	·0001106929
9035	5.13.139	81631225	737538117875	95·0526170	20·8277674	·0001106807
9036	$2^2.3^2.251$	81649296	737783038656	95·0578771	20·8285358	·0001106684
9037	7.1291	81667369	738028013653	95·0631369	20·8293041	·0001106562
9038	2.4519	81685444	738273042872	95·0683964	20·8300724	·0001106439
9039	3.23.131	81703521	738518126319	95·0736557	20·8308406	·0001106317
9040	$2^4.5.113$	81721600	738763264000	95·0789146	20·8316088	·0001106195
9041	.....	81739681	739008455921	95·0841732	20·8323769	·0001106072
9042	2.3.11.137	81757764	739253702088	95·0894316	20·8331449	·0001105950
9043	.....	81775849	739499002507	95·0946896	20·8339129	·0001105828
9044	$2^2.7.17.19$	81793936	739744357184	95·0999474	20·8346808	·0001105705
9045	$3^2.5.67$	81812025	739989766125	95·1052049	20·8354487	·0001105583
9046	2.4523	81830116	740235229336	95·1104621	20·8362165	·0001105461
9047	83.109	81848209	740480746823	95·1157190	20·8369843	·0001105339
9048	$2^3.3.13.29$	81866304	740726318592	95·1209756	20·8377520	·0001105217
9049	.....	81884401	740971944649	95·1262319	20·8385196	·0001105094
9050	$2.5^2.181$	81902500	741217625000	95·1314879	20·8392872	·0001104972
9051	3.7.431	81920601	741463359651	95·1367437	20·8400548	·0001104850
9052	$2^2.31.73$	81938704	741709148608	95·1419991	20·8408223	·0001104728
9053	11.823	81956809	741954991877	95·1472543	20·8415896	·0001104606
9054	$2.3^2.503$	81974916	742200889464	95·1525093	20·8423570	·0001104484
9055	5.1811	81993025	742446841375	95·1577637	20·8431243	·0001104362
9056	$2^3.283$	82011136	742692847616	95·1630180	20·8438916	·0001104240
9057	3.3019	82029249	742938908193	95·1682720	20·8446588	·0001104118
9058	2.7.647	82047364	743185023112	95·1735257	20·8454259	·0001103996
9059	.....	82065481	743431192379	95·1787792	20·8461930	·0001103875

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9060	$2^2.3.5.151$	82083600	743677416000	95·1840323	20·8469600	·0001103753
9061	13.17.41	82101721	743923693981	95·1892851	20·8477270	·0001103631
9062	2.23.197	82119844	744170026328	95·1945377	20·8484939	·0001103509
9063	$3^2.19.53$	82137969	744416413047	95·1997899	20·8492608	·0001103387
9064	$2^3.11.103$	82156096	744662854144	95·2050419	20·8500276	·0001103266
9065	$5.7^2.37$	82174225	744909349625	95·2102936	20·8507943	·0001103144
9066	2.3.1511	82192356	745155899496	95·2155450	20·8515610	·0001103022
9067	.....	82210489	745402503763	95·2207961	20·8523276	·0001102901
9068	$2^2.2267$	82228624	745649162432	95·2260469	20·8530942	·0001102779
9069	3.3023	82246761	745895875509	95·2312974	20·8538607	·0001102657
9070	2.5.907	82264900	746142643000	95·2365476	20·8546272	·0001102536
9071	47.193	82283041	746389464911	95·2417976	20·8553936	·0001102414
9072	$2^4.3^4.7$	82301184	746636341248	95·2470472	20·8561599	·0001102293
9073	43.211	82319329	746883272017	95·2522966	20·8569262	·0001102171
9074	2.13.349	82337476	747130257224	95·2575456	20·8576924	·0001102050
9075	$3.5^2.11^2$	82355625	747377296875	95·2627944	20·8584586	·0001101928
9076	$2^2.2269$	82373776	747624390976	95·2680429	20·8592247	·0001101807
9077	29.313	82391929	747871539533	95·2732911	20·8599908	·0001101686
9078	2.3.17.89	82410084	748118742552	95·2785391	20·8607568	·0001101564
9079	7.1297	82428241	748366000039	95·2837867	20·8615228	·0001101443
9080	$2^3.5.227$	82446400	748613312000	95·2890340	20·8622887	·0001101322
9081	$3^3.1009$	82464561	748860678441	95·2942811	20·8630545	·0001101200
9082	2.19.239	82482724	749108099368	95·2995278	20·8638203	·0001101079
9083	31.293	82500889	749355574787	95·3047743	20·8645860	·0001100958
9084	$2^2.3.757$	82519056	749603104704	95·3100205	20·8653517	·0001100837
9085	5.23.79	82537225	749850689125	95·3152664	20·8661173	·0001100715
9086	2.7.11.59	82555396	750098328056	95·3205120	20·8668828	·0001100594
9087	3.13.233	82573569	750346021503	95·3257573	20·8676483	·0001100473
9088	$2^4.71$	82591744	750593769472	95·3310023	20·8684138	·0001100352
9089	61.149	82609921	750841571969	95·3362471	20·8691792	·0001100231
9090	$2.3^2.5.101$	82628100	751089429000	95·3414916	20·8699445	·0001100110
9091	.....	82646281	751337340571	95·3467357	20·8707098	·0001099989
9092	$2^2.2273$	82664464	751585306688	95·3519796	20·8714750	·0001099868
9093	3.7.433	82682649	751833327357	95·3572232	20·8722402	·0001099747
9094	2.4547	82700836	752081402584	95·3624665	20·8730053	·0001099626
9095	5.17.107	82719025	752329532375	95·3677095	20·8737703	·0001099505
9096	$2^3.3.379$	82737216	752577716736	95·3729523	20·8745353	·0001099384
9097	11.827	82755409	752825955673	95·3781946	20·8753003	·0001099264
9098	2.4549	82773604	753074249192	95·3834368	20·8760652	·0001099143
9099	$3^2.337$	82791801	753322597299	95·3886786	20·8768300	·0001099022
9100	$2^2.5^2.7.13$	82810000	753571000000	95·3939202	20·8775948	·0001098901
9101	19.479	82828201	753819457301	95·3991614	20·8783595	·0001098780
9102	2.3.37.41	82846404	754067969208	95·4044024	20·8791242	·0001098660
9103	.....	82864609	754316535727	95·4096431	20·8798888	·0001098539
9104	$2^4.569$	82882816	754565156864	95·4148835	20·8806533	·0001098418
9105	3.5.607	82901025	754813832625	95·4201237	20·8814178	·0001098298
9106	2.29.157	82919236	755062563016	95·4253635	20·8821823	·0001098177
9107	7.1301	82937449	755311348043	95·4306031	20·8829467	·0001098056
9108	$2^2.3^3.11.23$	82955664	755560187712	95·4358424	20·8837110	·0001097936
9109	.....	82973881	755809082029	95·4410813	20·8844753	·0001097815
9110	2.5.911	82992100	756058031000	95·4463200	20·8852395	·0001097695
9111	3.3037	83010321	756307034631	95·4515584	20·8860037	·0001097574
9112	$2^3.17.67$	83028544	756556092928	95·4567965	20·8867678	·0001097454
9113	13.701	83046769	756805205897	95·4620343	20·8875318	·0001097333
9114	$2.3.7^2.31$	83064996	757054373544	95·4672719	20·8882958	·0001097213
9115	5.1823	83083225	757303595875	95·4725092	20·8890597	·0001097093
9116	$2^2.43.53$	83101456	757552872896	95·4777461	20·8898236	·0001096972
9117	$3^2.1013$	83119689	757802204613	95·4829828	20·8905875	·0001096852
9118	2.47.97	83137924	758051591032	95·4882192	20·8913512	·0001096732
9119	11.829	83156161	758301032159	95·4934553	20·8921149	·0001096611

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9120	$2^4.3.5.19$	83174400	758550528000	95·4986911	20·8928786	·0001096491
9121	7.1303	83192641	758800078561	95·5039266	20·8936422	·0001096371
9122	2.4561	83210884	759049683848	95·5091618	20·8944057	·0001096251
9123	3.3041	83229129	759299343867	95·5143968	20·8951692	·0001096131
9124	$2^2.2281$	83247376	759549058624	95·5196315	20·8959327	·0001096011
9125	$5^3.73$	83265625	759798828125	95·5248659	20·8966960	·0001095890
9126	$2.3^3.13^2$	83283876	760048652376	95·5301000	20·8974594	·0001095770
9127	.....	83302129	760298531383	95·5353338	20·8982226	·0001095650
9128	$2^3.7.163$	83320384	760548465152	95·5405673	20·8989859	·0001095530
9129	3.17.179	83338641	760798453689	95·5458005	20·8997490	·0001095410
9130	2.5.11.83	83356900	761048497000	95·5510335	20·9005121	·0001095290
9131	23.397	83375161	761298595091	95·5562661	20·9012751	·0001095170
9132	$2^2.3.761$	83393424	761548747968	95·5614985	20·9020381	·0001095050
9133	.....	83411689	761798955637	95·5667306	20·9028011	·0001094930
9134	2.4567	83429956	762049218104	95·5719624	20·9035639	·0001094811
9135	$3^3.5.7.29$	83448225	762299535375	95·5771939	20·9043267	·0001094691
9136	$2^4.571$	83466496	762549907456	95·5824252	20·9050895	·0001094571
9137	.....	83484769	762800334353	95·5876561	20·9058523	·0001094451
9138	2.3.1523	83503044	763050816072	95·5928868	20·9066149	·0001094331
9139	13.19.37	83521321	763301352619	95·5981171	20·9073775	·0001094212
9140	$2^2.5.457$	83539600	763551944000	95·6033472	20·9081400	·0001094092
9141	3.11.277	83557881	763802590221	95·6085770	20·9089025	·0001093972
9142	2.7.653	83576164	764053291288	95·6138065	20·9096649	·0001093853
9143	41.223	83594449	764304047207	95·6190358	20·9104273	·0001093733
9144	$2^3.3^2.127$	83612736	764554857984	95·6242647	20·9111896	·0001093613
9145	5.31.59	83631025	764805723625	95·6294934	20·9119519	·0001093494
9146	2.17.269	83649316	765056644136	95·6347217	20·9127141	·0001093374
9147	3.3049	83667609	765307619523	95·6399498	20·9134762	·0001093255
9148	$2^2.2287$	83685904	765558649792	95·6451775	20·9142383	·0001093135
9149	7.1307	83704201	765809734949	95·6504051	20·9150004	·0001093016
9150	$2.3.5^2.61$	83722500	766060875000	95·6556323	20·9157624	·0001092896
9151	.....	83740801	766312069951	95·6608593	20·9165243	·0001092776
9152	$2^6.11.13$	83759104	766563319808	95·6660859	20·9172862	·0001092657
9153	$3^4.113$	83777409	766814624577	95·6713123	20·9180480	·0001092538
9154	2.23.199	83795716	767065984264	95·6765384	20·9188097	·0001092419
9155	5.1831	83814025	767317398875	95·6817642	20·9195715	·0001092299
9156	$2^2.3.7.109$	83832336	767568868416	95·6869897	20·9203331	·0001092180
9157	.....	83850649	767820392893	95·6922149	20·9210947	·0001092061
9158	2.19.241	83868964	768071972312	95·6974398	20·9218562	·0001091941
9159	3.43.71	83887281	768323606679	95·7026645	20·9226177	·0001091822
9160	$2^3.5.229$	83905600	768575296000	95·7078889	20·9233792	·0001091703
9161	.....	83923921	768827040281	95·7131130	20·9241405	·0001091584
9162	$2.3^2.509$	83942244	769078839528	95·7183368	20·9249019	·0001091465
9163	$7^2.11.17$	83960569	769330693747	95·7235603	20·9256631	·0001091346
9164	$2^2.29.79$	83978896	769582602944	95·7287835	20·9264243	·0001091227
9165	3.5.13.47	83997225	769834567125	95·7340065	20·9271855	·0001091107
9166	2.4583	84015556	770086586296	95·7392292	20·9279466	·0001090988
9167	89.103	84033889	770338660463	95·7444515	20·9287077	·0001090869
9168	$2^4.3.191$	84052224	770590789632	95·7496736	20·9294686	·0001090750
9169	53.173	84070561	770842973809	95·7548954	20·9302296	·0001090631
9170	2.5.7.131	84088900	771095213000	95·7601170	20·9309904	·0001090513
9171	$3^3.1019$	84107241	771347507211	95·7653382	20·9317512	·0001090394
9172	$2^2.2293$	84125584	771599856448	95·7705591	20·9325120	·0001090275
9173	.....	84143929	771852260717	95·7757798	20·9332727	·0001090156
9174	2.3.11.139	84162276	772104720024	95·7810002	20·9340334	·0001090037
9175	$5^2.367$	84180625	772357234375	95·7862203	20·9347940	·0001089918
9176	$2^3.31.37$	84198976	772609803776	95·7914401	20·9355545	·0001089799
9177	3.7.19.23	84217329	772862428233	95·7966596	20·9363150	·0001089681
9178	2.13.353	84235684	773115107752	95·8018789	20·9370755	·0001089562
9179	67.137	84254041	773367842339	95·8070978	20·9378358	·0001089443

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9180	$2^2.3^3.5.17$	84272400	773620632000	95·8123165	20·9385962	·0001089325
9181	.....	84290761	773873476741	95·8175349	20·9393564	·0001089206
9182	2.4591	84309124	774126376568	95·8227530	20·9401166	·0001089087
9183	3.3061	84327489	774379331487	95·8279708	20·9408768	·0001088969
9184	$2^5.7.41$	84345856	774632341504	95·8331884	20·9416369	·0001088850
9185	5.11.167	84364225	774885406625	95·8384057	20·9423970	·0001088732
9186	2.3.1531	84382596	775138526856	95·8436227	20·9431570	·0001088613
9187	.....	84400969	775391702203	95·8488394	20·9439169	·0001088495
9188	$2^2.2297$	84419344	775644932672	95·8540558	20·9446768	·0001088376
9189	$3^3.1021$	84437721	775898218269	95·8592719	20·9454366	·0001088258
9190	2.5.919	84456100	776151559000	95·8644877	20·9461964	·0001088139
9191	7.13.101	84474481	776404954871	95·8697033	20·9469561	·0001088021
9192	$2^3.3.383$	84492864	776658405888	95·8749186	20·9477158	·0001087903
9193	29.317	84511249	776911912057	95·8801336	20·9484754	·0001087784
9194	2.4597	84529636	777165473384	95·8853483	20·9492349	·0001087666
9195	3.5.613	84548025	777419089875	95·8905627	20·9499944	·0001087548
9196	$2^2.11^2.19$	84566416	777672761536	95·8957767	20·9507539	·0001087429
9197	17.541	84584809	777926488373	95·9009906	20·9515133	·0001087311
9198	$2.3^2.7.73$	84603204	778180270392	95·9062042	20·9522726	·0001087193
9199	.....	84621601	778434107599	95·9114175	20·9530319	·0001087075
9200	$2^4.5^2.23$	84640000	778688000000	95·9166305	20·9537911	·0001086957
9201	3.3067	84658401	778941947601	95·9218432	20·9545502	·0001086838
9202	2.43.107	84676804	779195950408	95·9270556	20·9553093	·0001086720
9203	.....	84695209	779450008427	95·9322677	20·9560684	·0001086602
9204	$2^2.3.13.59$	84713616	779704121664	95·9374796	20·9568274	·0001086484
9205	5.7.263	84732025	779958290125	95·9426912	20·9575863	·0001086366
9206	2.4603	84750436	780212513816	95·9479025	20·9583452	·0001086248
9207	$3^3.11.31$	84768849	780466792743	95·9531135	20·9591040	·0001086130
9208	$2^3.1151$	84787264	780721126912	95·9583242	20·9598628	·0001086012
9209	.....	84805681	780975516329	95·9635347	20·9606216	·0001085894
9210	2.3.5.307	84824100	781229961000	95·9687449	20·9613802	·0001085776
9211	61.151	84842521	781484460931	95·9739548	20·9621388	·0001085658
9212	$2^2.7^2.47$	84860944	781739016128	95·9791644	20·9628974	·0001085541
9213	3.37.83	84879369	781993626597	95·9843737	20·9636559	·0001085423
9214	2.17.271	84897796	782248292344	95·9895828	20·9644144	·0001085305
9215	5.19.97	84916225	782503013375	95·9947916	20·9651728	·0001085187
9216	$2^{10}.3^2$	84934656	782757789696	96·0000000	20·9659311	·0001085069
9217	13.709	84953089	783012621313	96·0052082	20·9666894	·0001084952
9218	2.11.419	84971524	783267508232	96·0104161	20·9674476	·0001084834
9219	3.7.439	84989961	783522450459	96·0156237	20·9682058	·0001084716
9220	$2^2.5.461$	85008400	783777448000	96·0208310	20·9689639	·0001084599
9221	.....	85026841	784032500861	96·0260381	20·9697220	·0001084481
9222	2.3.29.53	85045284	784287609048	96·0312448	20·9704800	·0001084363
9223	23.401	85063729	784542772567	96·0364513	20·9712380	·0001084246
9224	$2^3.1153$	85082176	784797991424	96·0416575	20·9719959	·0001084128
9225	$3^2.5^2.41$	85100625	785053265625	96·0468635	20·9727538	·0001084011
9226	2.7.659	85119076	785308595176	96·0520691	20·9735116	·0001083893
9227	.....	85137529	785563980083	96·0572745	20·9742693	·0001083776
9228	$2^2.3.769$	85155984	785819420352	96·0624796	20·9750270	·0001083658
9229	11.839	85174441	786074915989	96·0676844	20·9757847	·0001083541
9230	2.5.13.71	85192900	786330467000	96·0728889	20·9765422	·0001083424
9231	3.17.181	85211361	786586073391	96·0780932	20·9772998	·0001083306
9232	$2^4.577$	85229824	786841735168	96·0832972	20·9780572	·0001083189
9233	7.1319	85248289	787097452337	96·0885009	20·9788146	·0001083072
9234	$2.3^3.19$	85266756	787353224904	96·0937042	20·9795720	·0001082954
9235	5.1847	85285225	787609052875	96·0989074	20·9803293	·0001082837
9236	$2^2.2309$	85303696	787864936256	96·1041102	20·9810866	·0001082720
9237	3.3079	85322169	788120875053	96·1093127	20·9818438	·0001082603
9238	2.31.149	85340644	788376869272	96·1145150	20·9826009	·0001082485
9239	.....	85359121	788632918919	96·1197170	20·9833580	·0001082368

Numb.	Factors.	Squares.	Cubes.	Sq. Root	Cu. Roots.	Reciprocals.
9240	$2^3.3.5.7.11$	85377600	788889024000	96·1249187	20·9841150	·0001082251
9241	.....	85396081	789145184521	96·1301201	20·9848720	·0001082134
9242	2.4621	85414564	789401400488	96·1353213	20·9856289	·0001082017
9243	$3^2.13.79$	85433049	789657671907	96·1405222	20·9863858	·0001081900
9244	2.2311	85451536	789913998784	96·1457227	20·9871426	·0001081783
9245	5.43^2	85470025	790179381125	96·1509231	20·9878994	·0001081666
9246	$2.3.23.67$	85488516	790426818936	96·1561231	20·9886561	·0001081549
9247	7.1321	85507009	790683312223	96·1613228	20·9894127	·0001081432
9248	$2^5.17^2$	85525504	790939860992	96·1665222	20·9901693	·0001081315
9249	3.3083	85544001	791196465249	96·1717214	20·9909259	·0001081198
9250	$2.5^3.37$	85562500	791453125000	96·1769203	20·9916823	·0001081081
9251	11.29^2	85581001	791709840251	96·1821189	20·9924388	·0001080964
9252	$2^2.3^3.257$	85599504	791966611008	96·1873172	20·9931951	·0001080847
9253	19.487	85618009	792223437277	96·1925153	20·9939515	·0001080731
9254	2.7.661	85636516	792480319064	96·1977131	20·9947077	·0001080614
9255	3.5.617	85655025	792737256375	96·2029106	20·9954639	·0001080497
9256	$2^3.13.89$	85673536	792994249216	96·2081078	20·9962201	·0001080380
9257	.....	85692049	793251297593	96·2133047	20·9969762	·0001080264
9258	2.3.1543	85710564	793508401512	96·2185013	20·9977323	·0001080147
9259	47.197	85729081	793765560979	96·2236977	20·9984883	·0001080030
9260	$2^2.5.463$	85747600	794022776000	96·2288938	20·9992442	·0001079914
9261	$3^3.7^3$	85766121	794280046581	96·2340896	21·0000000	·0001079797
9262	2.11.421	85784644	794537372728	96·2392851	21·0007559	·0001079680
9263	59.157	85803169	794794754447	96·2444804	21·0015117	·0001079564
9264	$2^4.3.193$	85821696	795052191744	96·2496753	21·0022674	·0001079447
9265	5.17.109	85840225	795309684625	96·2548700	21·0030231	·0001079331
9266	2.41.113	85858756	795567233096	96·2600644	21·0037787	·0001079214
9267	3.3089	85877289	795824837163	96·2652585	21·0045343	·0001079098
9268	$2^2.7.331$	85895824	796082496832	96·2704523	21·0052898	·0001078981
9269	$13.23.31$	85914361	796340212109	96·2756459	21·0060452	·0001078865
9270	$2.3^2.5.103$	85932900	796597983000	96·2808391	21·0068006	·0001078748
9271	73.127	85951441	796855809511	96·2860321	21·0075559	·0001078632
9272	$2^3.19.61$	85969984	797113691648	96·2912248	21·0083112	·0001078516
9273	3.11.281	85988529	797371629417	96·2964173	21·0090665	·0001078400
9274	2.4637	86007076	797629623824	96·3016094	21·0098216	·0001078283
9275	$7.5^2.53$	86025625	797887671875	96·3068013	21·0105767	·0001078167
9276	$2^2.3.773$	86044176	798145776576	96·3119929	21·0113318	·0001078051
9277	.....	86062729	798403936933	96·3171842	21·0120868	·0001077935
9278	2.4639	86081284	798662152952	96·3223752	21·0128418	·0001077818
9279	$3^3.1031$	86099841	798920424639	96·3275660	21·0135967	·0001077702
9280	$2^6.5.29$	86118400	799178752000	96·3327564	21·0143515	·0001077586
9281	.....	86136961	799437135041	96·3379467	21·0151063	·0001077470
9282	$2.3.7.13.17$	86155524	799695573768	96·3431366	21·0158610	·0001077354
9283	.....	86174089	799954068187	96·3483263	21·0166157	·0001077238
9284	$2^2.11.211$	86192656	800212618304	96·3535156	21·0173703	·0001077122
9285	3.5.619	86211225	800471224125	96·3587048	21·0181249	·0001077006
9286	2.4643	86229796	800729885656	96·3638936	21·0188794	·0001076890
9287	37.251	86248369	800988602903	96·3690821	21·0196339	·0001076774
9288	$2^3.3^2.43$	86266944	801247375872	96·3742704	21·0203884	·0001076658
9289	7.1327	86285521	801506204569	96·3794583	21·0211427	·0001076542
9290	2.5.929	86304100	801765089000	96·3846460	21·0218970	·0001076426
9291	3.19.163	86322681	802024029171	96·3898335	21·0226513	·0001076310
9292	$2^2.23.101$	86341264	802283025088	96·3950206	21·0234055	·0001076195
9293	.....	86359849	802542076757	96·4002075	21·0241597	·0001076079
9294	2.3.1549	86378436	802801184184	96·4053940	21·0249137	·0001075963
9295	$5.11.13^2$	86397025	803060347375	96·4105803	21·0256678	·0001075847
9296	$2^4.7.83$	86415616	803319566336	96·4157663	21·0264218	·0001075731
9297	$3^2.1033$	86434209	803578841073	96·4209521	21·0271757	·0001075616
9298	2.4649	86452804	803838171592	96·4261375	21·0279296	·0001075500
9299	17.547	86471401	804097557899	96·4313227	21·0286834	·0001075384

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9300	$2^2.3.5^2.31$	86490000	804357000000	96·4365076	21·0294372	·0001075269
9301	71.131	86508601	804616497901	96·4416922	21·0301909	·0001075153
9302	2.4651	86527204	804876051608	96·4468766	21·0309446	·0001075038
9303	3.7.443	86545809	805135661127	96·4520606	21·0316982	·0001074922
9304	$2^3.1163$	86564416	805395326464	96·4572444	21·0324517	·0001074807
9305	5.1861	86583025	805655047625	96·4624279	21·0332052	·0001074691
9306	$2.3^2.11.47$	86601636	805914824616	96·4676111	21·0339587	·0001074576
9307	41.227	86620249	806174657443	96·4727941	21·0347121	·0001074460
9308	$2^2.13.179$	86638864	806434546112	96·4779767	21·0354654	·0001074345
9309	3.29.107	86657481	806694490629	96·4831591	21·0362187	·0001074229
9310	$2.5.7^2.19$	86676100	806954491000	96·4883413	21·0369719	·0001074114
9311	.....	86694721	807214547231	96·4935231	21·0377251	·0001073998
9312	$2^3.3.97$	86713344	807474659328	96·4987047	21·0384782	·0001073883
9313	67.139	86731969	807734827297	96·5038859	21·0392313	·0001073768
9314	2.4657	86750596	807995051144	96·5090670	21·0399843	·0001073653
9315	$3^4.5.23$	86769225	808255330875	96·5142477	21·0407372	·0001073537
9316	$2^2.17.137$	86787856	808515666496	96·5194281	21·0414901	·0001073422
9317	7.11^3	86806489	808776058013	96·5246083	21·0422430	·0001073307
9318	2.3.1553	86825124	809036505432	96·5297882	21·0429958	·0001073192
9319	.....	86843761	809297008759	96·5349678	21·0437485	·0001073077
9320	$2^3.5.233$	86862400	809557568000	96·5401471	21·0445013	·0001072961
9321	3.13.239	86881041	809818183161	96·5453262	21·0452539	·0001072846
9322	2.59.79	86899684	810078854248	96·5505050	21·0460065	·0001072731
9323	.....	86918329	810339581267	96·5556834	21·0467590	·0001072616
9324	$2^2.3^3.7.37$	86936976	810600364224	96·5608616	21·0475115	·0001072501
9325	$5^2.373$	86955625	810861203125	96·5660396	21·0482639	·0001072386
9326	2.4663	86974276	811122097976	96·5712172	21·0490163	·0001072271
9327	3.3109	86992929	811383048783	96·5763946	21·0497686	·0001072156
9328	$2^4.11.53$	87011584	811644055552	96·5815717	21·0505209	·0001072041
9329	19.491	87030241	811905118289	96·5867485	21·0512731	·0001071926
9330	2.3.5.311	87048900	812166237000	96·5919251	21·0520252	·0001071811
9331	7.31.43	87067561	812427411691	96·5971013	21·0527773	·0001071696
9332	$2^2.2333$	87086224	812688642368	96·6022773	21·0535293	·0001071582
9333	$3^3.17.61$	87104889	812949929037	96·6074530	21·0542813	·0001071467
9334	2.13.359	87123556	813211271704	96·6126285	21·0550333	·0001071352
9335	5.1867	87142225	813472670375	96·6178037	21·0557851	·0001071237
9336	$2^3.3.389$	87160896	813734125056	96·6229786	21·0565370	·0001071123
9337	.....	87179569	813995635753	96·6281532	21·0572888	·0001071008
9338	2.7.23.29	87198244	814257202472	96·6333275	21·0580405	·0001070893
9339	3.11.283	87216921	814518825219	96·6385016	21·0587921	·0001070778
9340	$2^2.5.467$	87235600	814780504000	96·6436753	21·0595438	·0001070664
9341	.....	87254281	815042238821	96·6488489	21·0602953	·0001070549
9342	$2.3^3.173$	87272964	815304029688	96·6540221	21·0610469	·0001070435
9343	.....	87291649	815565876607	96·6591950	21·0617983	·0001070320
9344	$2^7.73$	87310336	815827779584	96·6643678	21·0625497	·0001070205
9345	3.5.7.89	87329025	816089738625	96·6695402	21·0633011	·0001070091
9346	2.4673	87347716	816351753736	96·6747123	21·0640524	·0001069976
9347	13.719	87366409	816613824923	96·6798841	21·0648036	·0001069862
9348	$2^2.3.19.41$	87385104	816875952192	96·6850556	21·0655548	·0001069748
9349	.....	87403801	817138135549	96·6902269	21·0663059	·0001069633
9350	$2.5^2.11.17$	87422500	817400375000	96·6953979	21·0670570	·0001069519
9351	$3^2.1039$	87441201	817662670551	96·7005687	21·0678081	·0001069404
9352	$2^3.7.167$	87459904	817925022208	96·7057391	21·0685590	·0001069290
9353	47.199	87478609	818187429977	96·7109093	21·0693099	·0001069176
9354	2.3.1559	87497316	818449893864	96·7160792	21·0700608	·0001069061
9355	5.1871	87516025	818712413875	96·7212488	21·0708116	·0001068947
9356	$2^2.2339$	87534736	818974990016	96·7264182	21·0715624	·0001068833
9357	3.3119	87553449	819237622293	96·7315873	21·0723131	·0001068719
9358	2.4679	87572164	819500310712	96·7367561	21·0730637	·0001068604
9359	$7^2.191$	87590881	819763055279	96·7419247	21·0738143	·0001068490

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9360	$2^4.3^2.5.13$	87609600	820025856000	96·7470930	21·0745649	·0001068376
9361	11.23.37	87628321	820288712881	96·7522609	21·0753154	·0001068262
9362	2.31.151	87647044	820551625928	96·7574286	21·0760658	·0001068148
9363	3.3121	87665769	820814595147	96·7625961	21·0768162	·0001068034
9364	$2^2.2341$	87684496	821077620544	96·7677632	21·0775665	·0001067920
9365	5.1873	87703225	821340702125	96·7729301	21·0783168	·0001067806
9366	2.3.7.223	87721956	821603839896	96·7780967	21·0790670	·0001067692
9367	17.19.29	87740689	821867033863	96·7832630	21·0798172	·0001067578
9368	$2^3.1171$	87759424	822130284032	96·7884290	21·0805674	·0001067464
9369	$3^3.347$	87778161	822393590409	96·7935948	21·0813174	·0001067350
9370	2.5.937	87796900	822656953000	96·7987603	21·0820674	·0001067236
9371	.....	87815641	822920371811	96·8039255	21·0828174	·0001067122
9372	$2^2.3.11.71$	87834384	823183846848	96·8090904	21·0835673	·0001067008
9373	7.13.103	87853129	823447378117	96·8142551	21·0843171	·0001066894
9374	2.43.109	87871876	823710965624	96·8194195	21·0850669	·0001066780
9375	3.5^5	87890625	823974609375	96·8245836	21·0858167	·0001066667
9376	$2^5.293$	87909376	824238309376	96·8297475	21·0865664	·0001066553
9377	.....	87928129	824502065633	96·8349111	21·0873160	·0001066439
9378	$2.3^2.521$	87946884	824765878152	96·8400743	21·0880656	·0001066325
9379	83.113	87965641	825029746939	96·8452374	21·0888151	·0001066212
9380	$2^2.5.7.67$	87984400	825293672000	96·8504001	21·0895646	·0001066098
9381	3.53.59	88003161	825557653341	96·8555626	21·0903141	·0001065984
9382	2.4691	88021924	825821690968	96·8607247	21·0910634	·0001065871
9383	11.853	88040689	826085784887	96·8658867	21·0918128	·0001065757
9384	$2^3.3.17.23$	88059456	826349935104	96·8710483	21·0925620	·0001065644
9385	5.1877	88078225	826614141625	96·8762096	21·0933112	·0001065530
9386	$2.13.19^2$	88096996	826878404456	96·8813707	21·0940604	·0001065417
9387	$3^2.7.149$	88115769	827142723603	96·8865316	21·0948095	·0001065303
9388	$2^2.2347$	88134544	827407099072	96·8916921	21·0955585	·0001065190
9389	41.229	88153321	827671538869	96·8968524	21·0963075	·0001065076
9390	2.3.5.313	88172100	827936019000	96·9020123	21·0970565	·0001064963
9391	.....	88190881	828200563471	96·9071721	21·0978054	·0001064849
9392	$2^4.587$	88209664	828465164288	96·9123315	21·0985542	·0001064736
9393	3.31.101	88228449	828729821457	96·9174907	21·0993030	·0001064623
9394	2.7.11.61	88247236	828994534984	96·9226496	21·1000517	·0001064509
9395	5.1879	88266025	829259304875	96·9278082	21·1008004	·0001064396
9396	$2^2.3^4.29$	88284816	829524131136	96·9329665	21·1015490	·0001064283
9397	.....	88303609	829789013773	96·9381246	21·1022976	·0001064169
9398	2.37.127	88322404	830053952792	96·9432823	21·1030461	·0001064056
9399	3.13.241	88341201	830318948199	96·9484399	21·1037946	·0001063943
9400	$2^3.5^2.47$	88360000	830584000000	96·9535971	21·1045430	·0001063830
9401	7.17.79	88378801	830849108201	96·9587541	21·1052914	·0001063717
9402	2.3.1567	88397604	831114272808	96·9639107	21·1060397	·0001063603
9403	.....	88416409	831379493827	96·9690672	21·1067879	·0001063490
9404	$2^2.2351$	88435216	831644771264	96·9742233	21·1075361	·0001063377
9405	$3^2.5.11.19$	88454025	831910105125	96·9793792	21·1082843	·0001063264
9406	2.4703	88472836	832175495416	96·9845348	21·1090324	·0001063151
9407	23.409	88491649	832440942143	96·9896901	21·1097804	·0001063038
9408	$2^6.3.7^2$	88510464	832706445312	96·9948452	21·1105284	·0001062925
9409	97^2	88529281	832972004929	97·0000000	21·1112763	·0001062812
9410	2.5.941	88548100	833237621000	97·0051545	21·1120242	·0001062699
9411	3.3137	88566921	833503293531	97·0103087	21·1127720	·0001062586
9412	$2^2.13.181$	88585744	833769022528	97·0154627	21·1135198	·0001062473
9413	.....	88604569	834034807997	97·0206163	21·1142676	·0001062361
9414	$2.3^2.523$	88623396	834300649944	97·0257697	21·1150152	·0001062248
9415	5.7.269	88642225	834566548375	97·0309229	21·1157629	·0001062135
9416	$2^3.11.107$	88661056	834832503296	97·0360757	21·1165104	·0001062022
9417	3.43.73	88679889	835098514713	97·0412283	21·1172579	·0001061909
9418	2.17.277	88698724	835364582632	97·0463806	21·1180054	·0001061797
9419	.....	88717561	835630707059	97·0515327	21·1187528	·0001061684

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9420	$2^2.3.5.157$	88736400	835896888000	97·0566844	21·1195001	·0001061571
9421	.....	88755241	836163125461	97·0618359	21·1202474	·0001061458
9422	2.7.673	88774084	836429419448	97·0669872	21·1209947	·0001061346
9423	$3^2.349$	88792929	836695769967	97·0721381	21·1217419	·0001061233
9424	$2^4.19.31$	88811776	836962177024	97·0772888	21·1224891	·0001061121
9425	$5^2.13.29$	88830625	837228640625	97·0824392	21·1232361	·0001061008
9426	2.3.1571	88849476	837495160776	97·0875893	21·1239832	·0001060895
9427	11.857	88868329	837761737483	97·0927391	21·1247302	·0001060783
9428	$2^2.2357$	88887184	838028370752	97·0978887	21·1254771	·0001060670
9429	3.7.449	88906041	838295060589	97·1030380	21·1262240	·0001060558
9430	2.5.23.41	88924900	838561807000	97·1081871	21·1269708	·0001060445
9431	.....	88943761	838828609991	97·1133358	21·1277176	·0001060333
9432	$2^3.3^2.131$	88962624	839095469568	97·1184843	21·1284643	·0001060221
9433	.....	88981489	839362385737	97·1236325	21·1292110	·0001060108
9434	2.53.89	89000356	839629358504	97·1287805	21·1299576	·0001059996
9435	3.5.17.37	89019225	839896387875	97·1339282	21·1307042	·0001059883
9436	$2^2.7.337$	89038096	840163473856	97·1390755	21·1314507	·0001059771
9437	.....	89056969	840430616453	97·1442227	21·1321971	·0001059659
9438	$2.3.11^2.13$	89075844	840697815672	97·1493695	21·1329435	·0001059547
9439	.....	89094721	840965071519	97·1545161	21·1336899	·0001059434
9440	$2^5.5.59$	89113600	841232384000	97·1596624	21·1344362	·0001059322
9441	$3^2.1049$	89132481	841499753121	97·1648084	21·1351824	·0001059210
9442	2.4721	89151364	841767178888	97·1699542	21·1359286	·0001059098
9443	7.19.71	89170249	842034661307	97·1750997	21·1366748	·0001058985
9444	$2^2.3.787$	89189136	842302200384	97·1802449	21·1374209	·0001058873
9445	5.1889	89208025	842569796125	97·1853898	21·1381669	·0001058761
9446	2.4723	89226916	842837448536	97·1905345	21·1389129	·0001058649
9447	3.47.67	89245809	843105157623	97·1956789	21·1396588	·0001058537
9448	$2^3.1181$	89264704	843372923592	97·2008230	21·1404047	·0001058425
9449	11.859	89283601	843640745849	97·2059669	21·1411505	·0001058313
9450	$2.3^2.5^2.7$	89302500	843908625000	97·2111104	21·1418968	·0001058201
9451	13.727	89321401	844176560851	97·2162537	21·1426420	·0001058089
9452	$2^2.17.139$	89340304	844444553408	97·2213968	21·1433876	·0001057977
9453	3.23.137	89359209	844712602677	97·2265395	21·1441333	·0001057865
9454	2.29.163	89378116	844980708664	97·2316820	21·1448788	·0001057753
9455	5.31.61	89397025	845248871375	97·2368243	21·1456243	·0001057641
9456	$2^4.3.197$	89415936	845517080816	97·2419662	21·1463698	·0001057530
9457	$7^2.193$	89434849	845785366993	97·2471079	21·1471152	·0001057418
9458	2.4729	89453764	846053699912	97·2522493	21·1478606	·0001057306
9459	$3^2.1051$	89472681	846322089579	97·2573904	21·1486058	·0001057194
9460	$2^2.5.11.43$	89491600	846590536000	97·2625313	21·1493511	·0001057082
9461	.....	89510521	846859039181	97·2676719	21·1500963	·0001056971
9462	2.3.19.83	89529444	847127599128	97·2728122	21·1508414	·0001056859
9463	.....	89548369	847396215847	97·2779522	21·1515865	·0001056747
9464	$2^3.7.13^2$	89567296	847664889344	97·2830920	21·1523316	·0001056636
9465	3.5.631	89586225	847933619625	97·2882315	21·1530765	·0001056524
9466	2.4733	89605156	848202406696	97·2933707	21·1538215	·0001056412
9467	.....	89624089	848471250563	97·2985097	21·1545663	·0001056301
9468	$2^2.3^2.263$	89643024	848740151232	97·3036483	21·1553111	·0001056189
9469	17.557	89661961	849009108709	97·3087868	21·1560559	·0001056078
9470	2.5.947	89680900	849278123000	97·3139250	21·1568006	·0001055966
9471	3.7.11.41	89699841	849547194111	97·3190629	21·1575453	·0001055855
9472	$2^6.37$	89718784	849816322048	97·3242005	21·1582899	·0001055743
9473	.....	89737729	850085506817	97·3293378	21·1590344	·0001055632
9474	2.3.1579	89756676	850354748424	97·3344749	21·1597789	·0001055520
9475	$5^2.379$	89775625	850624046875	97·3396116	21·1605234	·0001055409
9476	$2^2.23.103$	89794576	850893402176	97·3447482	21·1612678	·0001055298
9477	$3^6.13$	89813529	851162814333	97·3498844	21·1620121	·0001055186
9478	2.7.677	89832484	851432283352	97·3550204	21·1627564	·0001055075
9479	.....	89851441	851701809239	97·3601561	21·1635007	·0001054964

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9480	$2^3.3.5.79$	89870400	851971392000	97·3652915	21·1642449	·0001054852
9481	19.499	89889361	852241031641	97·3704267	21·1649891	·0001054741
9482	2.11.431	89908324	852510728168	97·3755616	21·1657332	·0001054630
9483	3.29.109	89927289	852780481587	97·3806962	21·1664772	·0001054519
9484	2^2 2371	89946256	853050291904	97·3858306	21·1672212	·0001054407
9485	5.7.271	89965225	853320159125	97·3909646	21·1679651	·0001054296
9486	$2.3^2.17.31$	89984196	853590083256	97·3960985	21·1687090	·0001054185
9487	53.179	90003169	853860064303	97·4012320	21·1694529	·0001054074
9488	$2^4.593$	90022144	854130102272	97·4063653	21·1701966	·0001053963
9489	3.3163	90041121	854400197169	97·4114983	21·1709403	·0001053852
9490	2.5.13.73	90060100	854670349000	97·4166310	21·1716840	·0001053741
9491	.....	90079081	854940557771	97·4217635	21·1724276	·0001053630
9492	$2^2.3.7.113$	90098064	855210823488	97·4268956	21·1731712	·0001053519
9493	11.863	90117049	855481146157	97·4320276	21·1739147	·0001053408
9494	2.47.101	90136036	855751525784	97·4371592	21·1746582	·0001053297
9495	$3^2.5.211$	90155025	856021962375	97·4422906	21·1754016	·0001053186
9496	$2^3.1187$	90174016	856292455936	97·4474217	21·1761450	·0001053075
9497	.....	90193009	856563006473	97·4525525	21·1768883	·0001052964
9498	2.3.1583	90212004	856833613992	97·4576831	21·1776315	·0001052853
9499	7.23.59	90231001	857104238499	97·4628134	21·1783747	·0001052742
9500	$2^2.5^3.19$	90250000	857375000000	97·4679434	21·1791179	·0001052632
9501	3.3167	90269001	857645778501	97·4730732	21·1798610	·0001052521
9502	2.4751	90288004	857916614008	97·4782027	21·1806040	·0001052410
9503	13.17.43	90307009	858187506527	97·4833319	21·1813470	·0001052299
9504	$2^5.3^3.11$	90326016	858458456064	97·4884609	21·1820900	·0001052189
9505	5.1901	90345025	858729462625	97·4935895	21·1828329	·0001052078
9506	$2.7^2.97$	90364036	859000526216	97·4987179	21·1835757	·0001051967
9507	3.3169	90383049	859271646843	97·5038460	21·1843185	·0001051857
9508	$2^2.2377$	90402064	859542824512	97·5089739	21·1850612	·0001051746
9509	37.257	90421081	859814059229	97·5141015	21·1858039	·0001051635
9510	2.3.5.317	90440100	860085351000	97·5192288	21·1865465	·0001051525
9511	.....	90459121	860356699831	97·5243559	21·1872891	·0001051414
9512	$2^3.29.41$	90478144	860628105728	97·5294827	21·1880317	·0001051304
9513	$3^3.7.151$	90497169	860899568697	97·5346092	21·1887742	·0001051193
9514	2.67.71	90516196	861171088744	97·5397354	21·1895166	·0001051083
9515	5.11.173	90535225	861442665875	97·5448614	21·1902589	·0001050972
9516	$2^2.3.13.61$	90554256	861714300096	97·5499871	21·1910013	·0001050862
9517	31.307	90573289	861985991413	97·5551126	21·1917435	·0001050751
9518	2.4759	90592324	862257739832	97·5602378	21·1924858	·0001050641
9519	3.19.167	90611361	862529545359	97·5653627	21·1932279	·0001050531
9520	$2^4.5.7.17$	90630400	862801408000	97·5704873	21·1939700	·0001050420
9521	.....	90649441	863073327761	97·5756117	21·1947121	·0001050310
9522	$2.3^2.23^2$	90668484	863345304648	97·5807358	21·1954541	·0001050200
9523	89.107	90687529	863617338667	97·5858596	21·1961960	·0001050089
9524	$2^2.2381$	90706576	863889429824	97·5909832	21·1969379	·0001049979
9525	$3.5^2.127$	90725625	864161578125	97·5961065	21·1976798	·0001049869
9526	2.11.433	90744676	864433783576	97·6012295	21·1984216	·0001049759
9527	7.1361	90763729	864706046183	97·6063522	21·1991633	·0001049648
9528	$2^3.3.397$	90782784	864978365952	97·6114747	21·1999050	·0001049538
9529	13.733	90801841	865250742889	97·6165969	21·2006467	·0001049428
9530	2.5.953	90820900	865523177000	97·6217188	21·2013883	·0001049318
9531	$3^3.353$	90839961	865795668291	97·6268405	21·2021298	·0001049208
9532	$2^2.2383$	90859024	866068216768	97·6319619	21·2028713	·0001049098
9533	.....	90878089	866340822437	97·6370831	21·2036127	·0001048988
9534	$2.3.7.227$	90897156	866613485304	97·6422040	21·2043541	·0001048878
9535	5.1907	90916225	866886205375	97·6473246	21·2050955	·0001048768
9536	$2^6.149$	90935296	867158982656	97·6524449	21·2058368	·0001048658
9537	$3.11.17^2$	90954369	867431817153	97·6575651	21·2065780	·0001048548
9538	2.19.251	90973444	867704708872	97·6626848	21·2073192	·0001048438
9539	.....	90992521	867977657819	97·6678043	21·2080603	·0001048328

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9540	$2^2.3^2.5.53$	91011600	868250664000	97·6729235	21·2088013	·0001048218
9541	7.29.47	91030681	868523727421	97·6780425	21·2095424	·0001048108
9542	2.13.367	91049764	868796848088	97·6831612	21·2102833	·0001047998
9543	3.3181	91068849	869070026007	97·6882797	21·2110243	·0001047889
9544	$2^3.1193$	91087936	869343261184	97·6933979	21·2117651	·0001047779
9545	5.23.83	91107025	869616553625	97·6985158	21·2125059	·0001047669
9546	2.3.37.43	91126116	869889903336	97·7036335	21·2132467	·0001047559
9547	.....	91145209	870163310323	97·7087508	21·2139874	·0001047449
9548	$2^2.7.11.31$	91164304	870436774592	97·7138679	21·2147281	·0001047340
9549	$3^3.1061$	91183401	870710296149	97·7189846	21·2154687	·0001047230
9550	$2.5^2.191$	91202500	870983875000	97·7241014	21·2162093	·0001047120
9551	.....	91221601	871257511151	97·7292177	21·2169498	·0001047011
9552	$2^4.3.199$	91240704	871531204608	97·7343338	21·2176902	·0001046901
9553	41.233	91259809	871804955377	97·7394496	21·2184306	·0001046792
9554	2.17.281	91278916	872078763464	97·7445651	21·2191710	·0001046682
9555	$3.5.7^2.13$	91298025	872352628875	97·7496803	21·2199113	·0001046572
9556	$2^2.2389$	91317136	872626551616	97·7547953	21·2206515	·0001046463
9557	19.503	91336249	872900531693	97·7599100	21·2213917	·0001046353
9558	2.34.59	91355364	873174569112	97·7650244	21·2221319	·0001046244
9559	$11^2.79$	91374481	873448663879	97·7701386	21·2228720	·0001046135
9560	$2^3.5.239$	91393600	873722816000	97·7752525	21·2236120	·0001046025
9561	3.3187	91412721	873997025481	97·7803661	21·2243520	·0001045916
9562	2.7.683	91431844	874271292328	97·7854795	21·2250919	·0001045806
9563	73.131	91450969	874545616547	97·7905925	21·2258318	·0001045697
9564	$2^2.3.797$	91470096	874819998144	97·7957054	21·2265716	·0001045588
9565	5.1913	91489225	875094437125	97·8008180	21·2273114	·0001045478
9566	2.4783	91508356	875368933496	97·8059303	21·2280511	·0001045369
9567	$3^2.1063$	91527489	875643487263	97·8110423	21·2287908	·0001045260
9568	$2^5.13.23$	91546624	875918098432	97·8161541	21·2295305	·0001045151
9569	7.1367	91565761	876192767009	97·8212656	21·2302701	·0001045041
9570	2.3.5.11.29	91584900	876467493000	97·8263768	21·2310096	·0001044932
9571	17.563	91604041	876742276411	97·8314877	21·2317490	·0001044823
9572	$2^2.2393$	91623184	877017117248	97·8365984	21·2324885	·0001044714
9573	3.3191	91642329	877292015517	97·8417088	21·2332278	·0001044805
9574	2.4787	91661476	877566971224	97·8468190	21·2339672	·0001044496
9575	$5^2.383$	91680625	877841984375	97·8519289	21·2347064	·0001044386
9576	$2^3.3^2.7.19$	91699776	878117054976	97·8570385	21·2354457	·0001044277
9577	61.157	91718929	878392183033	97·8621479	21·2361848	·0001044168
9578	2.4789	91738084	878667368552	97·8672569	21·2369239	·0001044059
9579	3.31.103	91757241	878942611539	97·8723658	21·2376630	·0001043950
9580	$2^2.5.479$	91776400	879217912000	97·8774743	21·2384020	·0001043841
9581	11.13.67	91795561	879493269941	97·8825827	21·2391410	·0001043732
9582	2.3.1597	91814724	879768685368	97·8876907	21·2398799	·0001043623
9583	7.37^2	91833889	880044158287	97·8927985	21·2406187	·0001043515
9584	$2^4.599$	91853056	880319688704	97·8979060	21·2413575	·0001043406
9585	$3^3.5.71$	91872225	880595276625	97·9030132	21·2420963	·0001043297
9586	2.4793	91891396	880870922056	97·9081202	21·2428350	·0001043188
9587	.....	91910569	881146625003	97·9132268	21·2435736	·0001043079
9588	$2^2.3.17.47$	91929744	881422385472	97·9183333	21·2443122	·0001042970
9589	43.223	91948921	881698203469	97·9234395	21·2450508	·0001042862
9590	2.5.7.137	91968100	881974079000	97·9285453	21·2457893	·0001042753
9591	3.23.139	91987281	882250012071	97·9336510	21·2465277	·0001042644
9592	$2^3.11.109$	92006464	882526002688	97·9387563	21·2472661	·0001042535
9593	53.181	92025649	882802050857	97·9438614	21·2480045	·0001042427
9594	$2.3^2.13.41$	92044836	883078156584	97·9489663	21·2487427	·0001042318
9595	5.19.101	92064025	883354319875	97·9540708	21·2494810	·0001042209
9596	$2^2.2399$	92083216	883630540736	97·9591751	21·2502191	·0001042101
9597	3.7.457	92102409	883906819173	97·9642792	21·2509573	·0001041992
9598	2.4799	92121604	884183155192	97·9693829	21·2516954	·0001041884
9599	29.331	92140801	884459548799	97·9744865	21·2524334	·0001041775

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9600	$2^7.3.5^2$	92160000	884736000000	97·9795897	21·2531714	·0001041667
9601	.....	92179201	885012508801	97·9846927	21·2539093	·0001041558
9602	2.4801	92198404	885289075208	97·9897954	21·2546471	·0001041450
9603	$3^2.11.97$	92217609	885565699227	97·9948980	21·2553849	·0001041341
9604	$2^2.7^4$	92236816	885842380864	98·0000000	21·2561227	·0001041233
9605	5.17.113	92256025	886119120125	98·0051019	21·2568604	·0001041124
9606	2.3.1601	92275236	886395917016	98·0102035	21·2575981	·0001041016
9607	13.739	92294449	886672771543	98·0153049	21·2583357	·0001040908
9608	$2^3.1201$	92313664	886949683712	98·0204060	21·2590733	·0001040799
9609	3.3203	92332881	887226653529	98·0255069	21·2598108	·0001040691
9610	$2.5.31^2$	92352100	887503681000	98·0306074	21·2605483	·0001040583
9611	7.1373	92371321	887780766131	98·0357077	21·2612857	·0001040474
9612	$2^2.33.89$	92390544	888057908928	98·0408078	21·2620230	·0001040366
9613	.....	92409769	888335109397	98·0459076	21·2627603	·0001040258
9614	2.11.19.23	92428996	888612367544	98·0510071	21·2634976	·0001040150
9615	3.5.641	92448225	888889683375	98·0561064	21·2642348	·0001040042
9616	$2^4.601$	92467456	889167056896	98·0612054	21·2649719	·0001039933
9617	59.163	92486689	889444488113	98·0663041	21·2657090	·0001039825
9618	2.3.7.229	92505924	889721977032	98·0714026	21·2664461	·0001039717
9619	.....	92525161	889999523659	98·0765008	21·2671831	·0001039609
9620	$2^2.5.13.37$	92544400	890277128000	98·0815987	21·2679200	·0001039501
9621	$3^2.1069$	92563641	890554790061	98·0866963	21·2686569	·0001039393
9622	2.17.283	92582884	890832509848	98·0917937	21·2693938	·0001039285
9623	.....	92602129	891110287367	98·0968909	21·2701306	·0001039177
9624	$2^3.3.401$	92621376	891388122624	98·1019877	21·2708673	·0001039069
9625	$5^3.7.11$	92640625	891666015625	98·1070843	21·2716040	·0001038961
9626	2.4813	92659876	891943966376	98·1121807	21·2723407	·0001038853
9627	3.3209	92679129	892221974883	98·1172768	21·2730773	·0001038745
9628	$2^2.29.83$	92698384	892500041152	98·1223725	21·2738138	·0001038637
9629	.....	92717641	892778165189	98·1274681	21·2745503	·0001038529
9630	$2.3^2.5.107$	92736900	893056347000	98·1325634	21·2752867	·0001038422
9631	.....	92756161	893334586591	98·1376584	21·2760231	·0001038314
9632	$2^5.7.43$	92775424	893612883968	98·1427532	21·2767595	·0001038206
9633	$3.13^2.19$	92794689	893891239137	98·1478477	21·2774957	·0001038098
9634	2.4817	92813956	894169652104	98·1529419	21·2782320	·0001037990
9635	5.41.47	92833225	894448122875	98·1580358	21·2789682	·0001037883
9636	$2^2.3.11.73$	92852496	894726651456	98·1631295	21·2797043	·0001037775
9637	23.419	92871769	895005237853	98·1682229	21·2804404	·0001037667
9638	2.61.79	92891044	895283882072	98·1733161	21·2811764	·0001037560
9639	$3^4.7.17$	92910321	895562584119	98·1784090	21·2819124	·0001037452
9640	$2^3.5.241$	92929600	895841344000	98·1835016	21·2826483	·0001037344
9641	31.311	92948881	896120161721	98·1885940	21·2833842	·0001037237
9642	2.3.1607	92968164	896399037288	98·1936861	21·2841201	·0001037129
9643	.....	92987449	896677970707	98·1987779	21·2848559	·0001037022
9644	$2^2.2411$	93006736	896956961984	98·2038695	21·2855916	·0001036914
9645	3.5.643	93026025	897236011125	98·2089609	21·2863273	·0001036807
9646	2.7.13.53	93045316	897515118136	98·2140519	21·2870629	·0001036699
9647	11.877	93064609	897794283023	98·2191427	21·2877985	·0001036592
9648	$2^4.3^3.67$	93083904	898073505792	98·2242333	21·2885340	·0001036484
9649	.....	93103201	898352786449	98·2293235	21·2892695	·0001036377
9650	$2.5^2.193$	93122500	898632125000	98·2344135	21·2900049	·0001036269
9651	3.3217	93141801	898911521451	98·2395032	21·2907402	·0001036162
9652	$2^2.19.127$	93161104	899190975808	98·2445927	21·2914756	·0001036055
9653	$7^2.197$	93180409	899470488077	98·2496819	21·2922108	·0001035947
9654	2.3.1609	93199716	899750058264	98·2547708	21·2929461	·0001035840
9655	5.1931	93219025	900029686375	98·2598595	21·2936812	·0001035733
9656	$2^3.17.71$	93238336	900309372416	98·2649479	21·2944163	·0001035626
9657	$3^3.29.37$	93257649	900589116393	98·2700361	21·2951514	·0001035518
9658	2.11.439	93276964	900868918312	98·2751239	21·2958864	·0001035411
9659	13.743	93296281	901148778179	98·2802116	21·2966214	·0001035304

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9660	$2^2.3.5.7.23$	93315600	901428696000	98·2852989	21·2973563	·0001035197
9661	.....	93334921	901708671781	98·2903860	21·2980911	·0001035090
9662	2.4831	93354244	901988705528	98·2954729	21·2988259	·0001034982
9663	3.3221	93373569	902268797247	98·3005595	21·2995607	·0001034875
9664	$2^6.151$	93392896	902548946944	98·3056458	21·3002954	·0001034768
9665	5.1933	93412225	902829154625	98·3107318	21·3010301	·0001034661
9666	$2.3^3.179$	93431556	903109420296	98·3158176	21·3017647	·0001034554
9667	7.1381	93450889	903389743963	98·3209031	21·3024992	·0001034447
9668	$2^2.2417$	93470224	903670125632	98·3259884	21·3032337	·0001034340
9669	3.11.293	93489561	903950565309	98·3310734	21·3039682	·0001034233
9670	2.5.967	93508900	904231063000	98·3361581	21·3047026	·0001034126
9671	19.509	93528241	904511618711	98·3412425	21·3054370	·0001034019
9672	$2^3.3.13.31$	93547584	904792232468	98·3463268	21·3061713	·0001033912
9673	17.569	93566929	905072904217	98·3514107	21·3069055	·0001033805
9674	2.7.691	93586276	905353634024	98·3564944	21·3076398	·0001033699
9675	$3^2.5^2.43$	93605625	905634421875	98·3615778	21·3083739	·0001033592
9676	$2^2.41.59$	93624976	905915267776	98·3666609	21·3091080	·0001033485
9677	.....	93644329	906196171733	98·3717438	21·3098421	·0001033378
9678	2.3.1613	93663684	906477133752	98·3768265	21·3105761	·0001033271
9679	.....	93683041	906758153839	98·3819089	21·3113101	·0001033165
9680	$2^4.5.11^2$	93702400	907039232000	98·3869910	21·3120440	·0001033058
9681	3.7.461	93721761	907320368241	98·3920728	21·3127778	·0001032951
9682	2.47.103	93741124	907601562568	98·3971544	21·3135116	·0001032844
9683	23.421	93760489	907882814987	98·4022357	21·3142453	·0001032738
9684	$2^2.3^2.269$	93779856	908164125504	98·4073168	21·3149790	·0001032631
9685	5.13.149	93799225	908445494125	98·4123976	21·3157127	·0001032525
9686	2.29.167	93818596	908726920856	98·4174781	21·3164463	·0001032418
9687	3.3229	93837969	909008405703	98·4225583	21·3171798	·0001032311
9688	$2^3.7.173$	93857344	909289948672	98·4276383	21·3179134	·0001032205
9689	.....	93876721	909571549769	98·4327181	21·3186468	·0001032098
9690	2.3.5.17.19	93896100	909853209000	98·4377976	21·3193802	·0001031992
9691	11.881	93915481	910134926371	98·4428768	21·3201136	·0001031885
9692	$2^2.2423$	93934864	910416701888	98·4479557	21·3208469	·0001031779
9693	$3^3.359$	93954249	910698535557	98·4530344	21·3215801	·0001031672
9694	2.37.131	93973636	910980427384	98·4581129	21·3223133	·0001031566
9695	5.7.277	93993025	911262377375	98·4631911	21·3230465	·0001031460
9696	$2^4.3.101$	94012416	911544385536	98·4682690	21·3237796	·0001031353
9697	.....	94031809	911826451873	98·4733466	21·3245127	·0001031247
9698	2.13.373	94051204	912108576392	98·4784240	21·3252457	·0001031140
9699	3.53.61	94070601	912390759099	98·4835011	21·3259786	·0001031034
9700	$2^2.5^2.97$	94090000	912673000000	98·4885780	21·3267115	·0001030928
9701	89.109	94109401	912955299101	98·4936546	21·3274444	·0001030822
9702	$2.3^2.7^2.11$	94128804	913237656408	98·4987309	21·3281772	·0001030715
9703	31.313	94148209	913520071927	98·5038070	21·3289099	·0001030609
9704	$2^3.1213$	94167616	913802545664	98·5088828	21·3296426	·0001030503
9705	3.5.647	94187025	914085077625	98·5139583	21·3303753	·0001030397
9706	2.23.211	94206436	914367667816	98·5190336	21·3311079	·0001030291
9707	17.571	94225849	914650316243	98·5241087	21·3318404	·0001030184
9708	$2^2.3.809$	94245264	914933022912	98·5291834	21·3325729	·0001030078
9709	7.19.73	94264681	915215787829	98·5342579	21·3333054	·0001029972
9710	2.5.971	94284100	915498611000	98·5393322	21·3340378	·0001029866
9711	$3^2.13.83$	94303521	915781492431	98·5444062	21·3347701	·0001029760
9712	$2^4.607$	94322944	916064432128	98·5494799	21·3355024	·0001029654
9713	11.883	94342369	916347430097	98·5545534	21·3362346	·0001029548
9714	2.3.1619	94361796	916630486344	98·5596266	21·3369668	·0001029442
9715	5.29.67	94381225	916913600875	98·5646995	21·3376989	·0001029336
9716	$2^2.7.347$	94400656	917196773696	98·5697722	21·3384310	·0001029230
9717	3.41.79	94420089	917480004813	98·5748446	21·3391631	·0001029124
9718	2.43.113	94439524	917763294232	98·5799168	21·3398951	·0001029018
9719	.....	94458961	918046641959	98·5849887	21·3406270	·0001028913

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9720	$2^3.3^5.5$	94478400	918330048000	98·5900603	21·3413589	·0001028807
9721	.....	94497841	918613512361	98·5951317	21·3420908	·0001028701
9722	2.4861	94517284	918897035048	98·6002028	21·3428226	·0001028595
9723	3.7.463	94536729	919180616067	98·6052737	21·3435543	·0001028489
9724	$2^2.11.13.17$	94556176	919464255424	98·6103442	21·3442860	·0001028383
9725	$5^2.389$	94575625	919747953125	98·6154146	21·3450177	·0001028278
9726	2.3.1621	94595076	920031709176	98·6204847	21·3457493	·0001028172
9727	71.137	94614529	920315523583	98·6255545	21·3464808	·0001028066
9728	$2^9.19$	94633984	920599396352	98·6306240	21·3472124	·0001027961
9729	$3^3.23.47$	94653441	920883327489	98·6356933	21·3479438	·0001027855
9730	2.5.7.139	94672900	921167317000	98·6407623	21·3486752	·0001027749
9731	37.263	94692361	921451364891	98·6458311	21·3494066	·0001027644
9732	$2^2.3.811$	94711824	921735471168	98·6508996	21·3501379	·0001027538
9733	.....	94731289	922019635837	98·6559679	21·3508692	·0001027432
9734	2.31.157	94750756	922303858904	98·6610359	21·3516004	·0001027327
9735	3.5.11.59	94770225	922588140375	98·6661036	21·3523315	·0001027221
9736	$2^3.1217$	94789696	922872480256	98·6711711	21·3530626	·0001027116
9737	7.13.107	94809169	923156875553	98·6762383	21·3537937	·0001027010
9738	$2.3^2.541$	94828644	923441339272	98·6813052	21·3545247	·0001026905
9739	.....	94848121	923725850419	98·6863719	21·3552557	·0001026799
9740	$2^2.5.487$	94867600	924010424000	98·6914383	21·3559866	·0001026694
9741	3.17.191	94887081	924295056021	98·6965045	21·3567174	·0001026589
9742	2.4871	94906564	924579746488	98·7015704	21·3574482	·0001026483
9743	.....	94926049	924864495407	98·7066360	21·3581790	·0001026378
9744	$2^4.3.7.29$	94945536	925149302784	98·7117014	21·3589097	·0001026273
9745	5.1949	94965025	925434168625	98·7167666	21·3596404	·0001026167
9746	2.11.443	94984516	925719092936	98·7218314	21·3603710	·0001026062
9747	$3^3.19^2$	95004009	926004075723	98·7268960	21·3611016	·0001025957
9748	$2^2.2437$	95023504	926289116992	98·7319604	21·3618321	·0001025851
9749	.....	95043001	926574216749	98·7370245	21·3625625	·0001025746
9750	$2.3.5^3.13$	95062500	926859375000	98·7420883	21·3632929	·0001025641
9751	$7^2.199$	95082001	927144591751	98·7471519	21·3640233	·0001025536
9752	$2^3.23.53$	95101504	927429867008	98·7522151	21·3647536	·0001025431
9753	3.3251	95121009	927715200777	98·7572782	21·3654839	·0001025326
9754	2.4877	95140516	928000593064	98·7623410	21·3662141	·0001025220
9755	5.1951	95160025	928286043875	98·7674035	21·3669442	·0001025115
9756	$2^2.3^2.271$	95179536	928571553216	98·7724658	21·3676743	·0001025010
9757	11.887	95199049	928857121093	98·7775278	21·3684044	·0001024905
9758	2.7.17.41	95218564	929142747512	98·7825895	21·3691344	·0001024800
9759	3.3253	95238081	929428432479	98·7876510	21·3698644	·0001024695
9760	$2^5.5.61$	95257600	929714177000	98·7927123	21·3705943	·0001024590
9761	43.227	95277121	929999978081	98·7977733	21·3713241	·0001024485
9762	2.3.1627	95296644	930285838728	98·8028340	21·3720539	·0001024380
9763	13.751	95316169	930571757947	98·8078944	21·3727837	·0001024275
9764	$2^2.2441$	95335696	930857735744	98·8129546	21·3735134	·0001024170
9765	$3^2.5.7.31$	95355225	931143772125	98·8180146	21·3742431	·0001024066
9766	2.19.257	95374756	931429867096	98·8230742	21·3749727	·0001023961
9767	.....	95394289	931716020663	98·8281337	21·3757023	·0001023856
9768	$2^3.3.11.37$	95413824	932002232832	98·8331928	21·3764318	·0001023751
9769	.....	95433361	932288503609	98·8382517	21·3771612	·0001023646
9770	2.5.977	95452900	932574833000	98·8433103	21·3778906	·0001023541
9771	3.3257	95472441	932861221011	98·8483687	21·3786200	·0001023437
9772	$2^2.7.349$	95491984	933147667648	98·8534268	21·3793493	·0001023332
9773	29.337	95511529	933434172917	98·8584847	21·3800786	·0001023227
9774	$2.3^3.181$	95531076	933720736824	98·8635423	21·3808078	·0001023123
9775	$5^2.17.23$	95550625	934007359375	98·8685996	21·3815369	·0001023018
9776	$2^4.13.47$	95570176	934294040576	98·8736568	21·3822660	·0001022913
9777	3.3259	95589729	934580780433	98·8787136	21·3829951	·0001022809
9778	2.4889	95609284	934867578952	98·8837702	21·3837241	·0001022704
9779	7.11.127	95628841	935154436139	98·8888265	21·3844531	·0001022599

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9780	$2^2.3.5.163$	95648400	935441352000	98·8938825	21·3851820	·0001022495
9781	.....	95667961	935728326541	98·8989383	21·3859108	·0001022390
9782	2.67.73	95687524	936015359768	98·9039938	21·3866397	·0001022286
9783	$3^2.1087$	95707089	936302451687	98·9090491	21·3873684	·0001022181
9784	$2^3.1223$	95726656	936589602304	98·9141041	21·3880971	·0001022077
9785	5.19.103	95746225	936876811625	98·9191589	21·3888258	·0001021972
9786	2.3.7.233	95765796	937164079656	98·9242134	21·3895544	·0001021868
9787	.....	95785369	937451406403	98·9292676	21·3902829	·0001021764
9788	$2^2.2447$	95804944	937738791872	98·9343216	21·3910115	·0001021659
9789	3.13.251	95824521	938026236069	98·9393753	21·3917399	·0001021555
9790	2.5.11.89	95844100	938313739000	98·9444288	21·3924683	·0001021450
9791	.....	95863681	938601300671	98·9494820	21·3931967	·0001021346
9792	$2^6.3^2.17$	95883264	938888921088	98·9545350	21·3939250	·0001021242
9793	7.1399	95902849	939176600257	98·9595877	21·3946532	·0001021138
9794	2.59.83	95922436	939464338184	98·9646401	21·3953814	·0001021033
9795	3.5.653	95942025	939752134875	98·9696923	21·3961096	·0001020929
9796	$2^2.31.79$	95961616	940039990336	98·9747442	21·3968377	·0001020825
9797	97.101	95981209	940327904573	98·9797959	21·3975658	·0001020721
9798	2.3.23.71	96000804	940615877592	98·9848473	21·3982938	·0001020616
9799	41.239	96020401	940903909399	98·9898985	21·3990217	·0001020512
9800	$2^3.5^2.7^2$	96040000	941192000000	98·9949493	21·3997496	·0001020408
9801	$3^4.11^2$	96059601	941480149401	99·0000000	21·4004775	·0001020304
9802	$2.13^2.29$	96079204	941768357608	99·0050504	21·4012053	·0001020200
9803	.....	96098809	942056624627	99·0101005	21·4019330	·0001020096
9804	$2^2.3.19.43$	96118416	942344950464	99·0151503	21·4026607	·0001019992
9805	5.37.53	96138025	942633335125	99·0201999	21·4033884	·0001019888
9806	2.4903	96157636	942921778616	99·0252493	21·4041160	·0001019784
9807	3.7.467	96177249	943210280943	99·0302984	21·4048436	·0001019680
9808	$2^4.613$	96196864	943498842112	99·0353472	21·4055711	·0001019576
9809	17.577	96216481	943787462129	99·0403958	21·4062985	·0001019472
9810	$2.3^2.5.109$	96236100	944076141000	99·0454441	21·4070259	·0001019368
9811	.....	96255721	944364878731	99·0504922	21·4077533	·0001019264
9812	$2^2.11.223$	96275344	944653675328	99·0555400	21·4084806	·0001019160
9813	3.2371	96294969	944942530797	99·0605875	21·4092079	·0001019056
9814	2.7.701	96314596	945231445144	99·0656348	21·4099351	·0001018953
9815	5.13.151	96334225	945520418375	99·0706818	21·4106623	·0001018849
9816	$2^3.3.409$	96353856	945809450496	99·0757286	21·4113894	·0001018745
9817	.....	96373489	946098541513	99·0807752	21·4121165	·0001018641
9818	2.4909	96393124	946387691432	99·0858214	21·4128435	·0001018537
9819	$3^2.1091$	96412761	946676900259	99·0908674	21·4135705	·0001018434
9820	$2^2.5.491$	96432400	946966168000	99·0959131	21·4142974	·0001018330
9821	7.23.61	96452041	947255494661	99·1009586	21·4150243	·0001018226
9822	2.3.1637	96471684	947544880248	99·1060039	21·4157511	·0001018123
9823	11.19.47	96491329	947834324767	99·1110488	21·4164778	·0001018019
9824	$2^6.307$	96510976	948123828224	99·1160935	21·4172046	·0001017915
9825	$3.5^2.131$	96530625	948413390625	99·1211380	21·4179312	·0001017812
9826	2.17^3	96550276	948703011976	99·1261822	21·4186579	·0001017708
9827	31.317	96569929	948992692283	99·1312261	21·4193844	·0001017605
9828	$2^2.3^2.7.13$	96589584	949282431552	99·1362698	21·4201109	·0001017501
9829	.....	96609241	949572229789	99·1413132	21·4208374	·0001017398
9830	2.5.983	96628900	949862087000	99·1463564	21·4215638	·0001017294
9831	3.29.113	96648561	950152003191	99·1513993	21·4222902	·0001017191
9832	$2^3.1229$	96668224	950441978368	99·1564420	21·4230166	·0001017087
9833	.....	96687889	950732012537	99·1614844	21·4237428	·0001016984
9834	2.3.11.149	96707556	951022105704	99·1665265	21·4244691	·0001016880

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9835	5.7.281	96727225	951512257875	99·1715684	21·4251953	·0001016777
9836	2^2.2459	96746896	951602469056	99·1766'01	21·4259214	·0001016673
9837	3^2.1093	96766569	951892739253	99·1816515	21·4266475	·0001016570
9838	2.4919	96786244	952185068472	99·1866926	21·4273735	·0001016467
9839	.....	96805921	952473456719	99·1917335	21·4280995	·0001016363
9840	2^4.3.5.41	96825600	952763904000	99·1967741	21·4288254	·0001016260
9841	13.757	96845281	953054410321	99·2018145	21·4295513	·0001016157
9842	2.7.19.37	96864964	953344975688	99·2068546	21·4302771	·0001016054
9843	3.17.193	96884649	953635600107	99·2118944	21·4310029	·0001015950
9844	2^2.23.107	96904336	953926283584	99·2169340	21·4317286	·0001015847
9845	5.11.179	96924025	954217026125	99·2219734	21·4324543	·0001015744
9846	2.3^2.547	96943716	954507827736	99·2270124	21·4331799	·0001015641
9847	43.229	96963409	954798688423	99·2320512	21·4339055	·0001015538
9848	2^3.1231	96983104	955089608192	99·2370898	21·4346311	·0001015435
9849	3.7^2.67	97002801	955380587049	99·2421281	21·4353566	·0001015332
9850	2.5^2.197	97022500	955671625000	99·2471662	21·4360820	·0001015228
9851	.....	97042201	955962722051	99·2522039	21·4368074	·0001015125
9852	2^2.3.821	97061904	956253878208	99·2572415	21·4375327	·0001015022
9853	59.167	97081609	956545093477	99·2622788	21·4382580	·0001014919
9854	2.13.379	97101316	956836367864	99·2673158	21·4389833	·0001014816
9855	3^3.5.73	97121025	957127701375	99·2723526	21·4397085	·0001014713
9856	2^3.7.11	97140736	957419094016	99·2773892	21·4404336	·0001014610
9857	.....	97160449	957710545793	99·2824254	21·4411587	·0001014507
9858	2.3.31.53	97180164	958002056712	99·2874614	21·4418838	·0001014404
9859	.....	97199881	958293626779	99·2924972	21·4426088	·0001014302
9860	2^2.5.17.29	97219600	958585256000	99·2975327	21·4433337	·0001014199
9861	3.19.173	97239321	958876944381	99·3025679	21·4440586	·0001014096
9862	2.4931	97259044	959168691928	99·3076029	21·4447835	·0001013993
9863	7.1409	97278769	959460498647	99·3126376	21·4455083	·0001013890
9864	2^3.3^4.137	97298496	959752364544	99·3176721	21·4462330	·0001013788
9865	5.1973	97318225	960044289625	99·3227063	21·4469577	·0001013685
9866	2.4933	97337956	960336273896	99·3277403	21·4476824	·0001013582
9867	3.11.13.23	97357689	960628317363	99·3327740	21·4484070	·0001013479
9868	2^2.2467	97377424	960920420032	99·3378075	21·4491315	·0001013377
9869	71.139	97397161	961212581909	99·3428407	21·4498561	·0001013274
9870	2.3.5.7.47	97416900	961504803000	99·3478736	21·4505805	·0001013171
9871	.....	97436641	961797083311	99·3529063	21·4513049	·0001013069
9872	2^4.617	97456384	962089422848	99·3579388	21·4520293	·0001012966
9873	3^3.1097	97476129	962381821617	99·3629710	21·4527536	·0001012863
9874	2.4937	97495876	962674279624	99·3680029	21·4534778	·0001012761
9875	53.79	97515625	962966796875	99·3730345	21·4542021	·0001012658
9876	2^2.3.823	97535376	963259373376	99·3780659	21·4549263	·0001012556
9877	7.17.83	97555129	963552009133	99·3830971	21·4556504	·0001012453
9878	2.11.449	97574884	963844704152	99·3881280	21·4563745	·0001012351
9879	3.37.89	97594641	964137458439	99·3931586	21·4570985	·0001012248
9880	2^3.5.13.19	97614400	964430272000	99·3981890	21·4578224	·0001012146
9881	41.241	97634161	964723144841	99·4032192	21·4585464	·0001012043
9882	2.3^4.61	97653924	965016076968	99·4082491	21·4592703	·0001011941
9883	.....	97673689	965309068387	99·4132787	21·4599941	·0001011839
9884	2^2.7.353	97693456	965602119104	99·4183081	21·4607179	·0001011736
9885	3.5.659	97713225	965895229125	99·4233372	21·4614416	·0001011634
9886	2.4943	97732996	966188398456	99·4283661	21·4621653	·0001011531
9887	.....	97752769	966481627103	99·4333948	21·4628889	·0001011429
9888	2^5.3.103	97772544	966774915072	99·4384232	21·4636125	·0001011327
9889	11.29.31	97792321	967068262369	99·4434513	21·4643360	·0001011225

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9890	2.5.23.43	97812100	967361669000	99·4484791	21·4650595	·0001011122
9891	3^2.7.157	97831881	967655134971	99·4535067	21·4657829	·0001011020
9892	2^2.2473	97851664	967948660288	99·4585340	21·4665063	·0001010918
9893	13.761	97871449	968242244957	99·4635611	21·4672297	·0001010816
9894	2.3.17.97	97891236	968535888984	99·4685880	21·4679530	·0001010714
9895	5.1979	97911025	968829592375	99·4736146	21·4686762	·0001010611
9896	2^3.1237	97930816	969123355136	99·4786408	21·4693994	·0001010509
9897	3.3299	97950609	969417177273	99·4836669	21·4701226	·0001010407
9898	2.7^2.101	97970404	969711058792	99·4886927	21·4708457	·0001010305
9899	19.521	97990201	970004999699	99·4937183	21·4715687	·0001010203
9900	2^2.3^2.5^2.11	98010000	970299000000	99·4987436	21·4722917	·0001010101
9901	.....	98029801	970593059701	99·5037687	21·4730147	·0001009999
9902	2.4951	98049604	970887178808	99·5087935	21·4737376	·0001009897
9903	3.3301	98069409	971181357327	99·5138181	21·4744604	·0001009795
9904	2^4.619	98089216	971475595264	99·5188424	21·4751832	·0001009693
9905	5.7.283	98109025	971769892625	99·5238665	21·4759060	·0001009591
9906	2.3.13.127	98128836	972064249416	99·5288902	21·4766287	·0001009489
9907	.....	98148649	972358665643	99·5339138	21·4773513	·0001009387
9908	2^2.2477	98168464	972653141312	99·5389371	21·4780739	·0001009285
9909	3^3.367	98188281	972947676429	99·5439601	21·4787965	·0001009184
9910	2.5.991	98208100	973242271000	99·5489829	21·4795190	·0001009082
9911	11.17.53	98227921	973536925031	99·5540054	21·4802415	·0001008980
9912	2^3.3.7.59	98247744	973831638528	99·5590277	21·4809639	·0001008878
9913	23.431	98267569	974126411497	99·5640497	21·4816863	·0001008776
9914	2.4957	98287396	974421243944	99·5690715	21·4824086	·0001008675
9915	3.5.661	98307225	974716135875	99·5740930	21·4831308	·0001008573
9916	2^2.37.67	98327056	975011087296	99·5791142	21·4838531	·0001008471
9917	47.211	98346889	975306098213	99·5841352	21·4845752	·0001008369
9918	2.3^2.19.29	98366724	975601168632	99·5891560	21·4852974	·0001008268
9919	7.13.109	98386561	975896298559	99·5941765	21·4860194	·0001008166
9920	2^6.5.31	98406400	976191488000	99·5991968	21·4867414	·0001008065
9921	3.3307	98426241	976486736961	99·6042168	21·4874634	·0001007963
9922	2.11^2.41	98446084	976782045448	99·6092365	21·4881854	·0001007861
9923	.....	98465929	977077413467	99·6142560	21·4889072	·0001007760
9924	2^2.3.827	98485776	977372841024	99·6192752	21·4896291	·0001007658
9925	5^2.397	98505625	977668328125	99·6242942	21·4903508	·0001007557
9926	2.7.709	98525476	977963874776	99·6293129	21·4910726	·0001007455
9927	3^2.1103	98545329	978259480983	99·6343314	21·4917942	·0001007354
9928	2^3.17.73	98565184	978555146752	99·6393496	21·4925158	·0001007252
9929	.....	98585041	978850872089	99·6443676	21·4932374	·0001007151
9930	2.3.5.331	98604900	979146657000	99·6493853	21·4939590	·0001007049
9931	.....	98624761	979442501491	99·6544028	21·4946805	·0001006948
9932	2^2.13.191	98644624	979738405568	99·6594200	21·4954019	·0001006847
9933	3.7.11.43	98664489	980034369237	99·6644370	21·4961233	·0001006745
9934	2.4967	98684356	980330392504	99·6694537	21·4968446	·0001006644
9935	5.1987	98704225	980626475375	99·6744701	21·4975659	·0001006543
9936	2^4.3^3.23	98724096	980922617856	99·6794864	21·4982872	·0001006441
9937	19.523	98743969	981218819953	99·6845023	21·4990084	·0001006340
9938	2.4969	98763844	981515081672	99·6895180	21·4997295	·0001006239
9939	3.3313	98783721	981811403019	99·6945334	21·5004506	·0001006137
9940	2^2.5.7.71	98803600	982107784000	99·6995486	21·5011717	·0001006036
9941	.....	98823481	982404224621	99·7045635	21·5018927	·0001005935
9942	2.3.1657	98843364	982700724888	99·7095782	21·5026136	·0001005834
9943	61.163	98863249	982997284807	99·7145926	21·5033345	·0001005733
9944	2^3.11.113	98883136	983293904384	99·7196068	21·5040554	·0001005632

Numb.	Factors.	Squares.	Cubes.	Sq. Roots.	Cu. Roots.	Reciprocals.
9945	$3^2.5.13.17$	98903025	983590583625	99·7246208	21·5047762	·0001005530
9946	2.4973	98922916	983887322536	99·7296345	21·5054970	·0001005429
9947	$7^3.29$	98942809	984184121123	99·7346479	21·5062177	·0001005328
9948	$2^2.3.829$	98962704	984480979392	99·7396611	21·5069383	·0001005227
9949	.....	98982601	984777897349	99·7446740	21·5076590	·0001005126
9950	$2.5^2.199$	99002500	985074875000	99·7496867	21·5083796	·0001005025
9951	3.31.107	99022401	985371912351	99·7546991	21·5091001	·0001004924
9952	$2^5.311$	99042304	985669009408	99·7597113	21·5098206	·0001004823
9953	37.269	99062209	985966166177	99·7647232	21·5105410	·0001004722
9954	$2.3^2.7.79$	99082116	986263382664	99·7697349	21·5112614	·0001004621
9955	5.11.181	99102025	986560658875	99·7747463	21·5119817	·0001004520
9956	$2^2.19.131$	99121936	986857994816	99·7797574	21·5127020	·0001004419
9957	3.3319	99141849	987155390493	99·7847683	21·5134222	·0001004319
9958	2.13.383	99161764	987452845912	99·7897790	21·5141424	·0001004218
9959	23.433	99181681	987750361079	99·7947894	21·5148625	·0001004117
9960	$2^3.3.5.83$	99201600	988047936000	99·7997996	21·5155826	·0001004016
9961	7.1423	99221521	988345570681	99·8048095	21·5163027	·0001003915
9962	2.17.293	99241444	988643265128	99·8098191	21·5170227	·0001003815
9963	$3^5.41$	99261369	988941019347	99·8148285	21·5177426	·0001003714
9964	$2^2.47.53$	99281296	989238833344	99·8198377	21·5184625	·0001003613
9965	5.1993	99301225	989536707125	99·8248466	21·5191824	·0001003514
9966	2.3.11.151	99321156	989834640696	99·8298552	21·5199022	·0001003412
9967	.....	99341089	990132634063	99·8348636	21·5206219	·0001003311
9968	$2^4.7.89$	99361024	990430687232	99·8398718	21·5213416	·0001003210
9969	3.3323	99380961	990728800209	99·8448797	21·5220613	·0001003110
9970	$2.5.997$	99400900	991026973000	99·8498873	21·5227809	·0001003009
9971	$13^2.59$	99420841	991325205611	99·8548947	21·5235005	·0001002908
9972	$2^2.3^2.277$	99440784	991623498048	99·8599018	21·5242200	·0001002808
9973	.....	99460729	991921850317	99·8649087	21·5249394	·0001002707
9974	2.4987	99480676	992220262424	99·8699153	21·5256589	·0001002607
9975	$3.5^2.7.19$	99500625	992518734375	99·8749217	21·5263782	·0001002506
9976	$2^3.29.43$	99520576	992817266176	99·8799279	21·5270976	·0001002406
9977	11.907	99540529	993115857833	99·8849337	21·5278168	·0001002305
9978	2.3.1663	99560484	993414509352	99·8899394	21·5285361	·0001002205
9979	17.587	99580441	993713220739	99·8949448	21·5292553	·0001002104
9980	$2^2.5.499$	99600400	994011992000	99·8999499	21·5299744	·0001002004
9981	$3^3.1109$	99620361	994310823141	99·9049548	21·5306935	·0001001904
9982	2.7.23.31	99640324	994609714168	99·9099594	21·5314125	·0001001803
9983	67.149	99660289	994908665087	99·9149638	21·5321315	·0001001703
9984	$2^6.3.13$	99680256	995207675904	99·9199680	21·5328504	·0001001603
9985	5.1997	99700225	995506746625	99·9249718	21·5335693	·0001001502
9986	2.4993	99720196	995805877256	99·9299755	21·5342882	·0001001402
9987	3.3329	99740169	996105067803	99·9349788	21·5350070	·0001001302
9988	$2^2.11.227$	99760144	996404318272	99·9399820	21·5357257	·0001001201
9989	7.1427	99780121	996703628669	99·9449848	21·5364444	·0001001101
9990	$2.3^3.5.37$	99800100	997002999000	99·9499875	21·5371630	·0001001001
9991	97.103	99820081	997302429271	99·9549898	21·5378816	·0001000901
9992	$2^3.1249$	99840064	997601919488	99·9599920	21·5386002	·0001000801
9993	3.3331	99860049	997901469657	99·9649938	21·5393187	·0001000700
9994	2.19.263	99880036	998201079784	99·9699955	21·5400372	·0001000600
9995	5.1999	99900025	998500749875	99·9749968	21·5407556	·0001000500
9996	$2^2.3.7^2.17$	99920016	998800479936	99·9799980	21·5414739	·0001000400
9997	13.769	99940009	999100269973	99·9849988	21·5421923	·0001000300
9998	2.4999	99960004	999400119992	99·9899995	21·5429105	·0001000200
9999	$3^2.11.101$	99980001	999700029999	99·9949998	21·5436287	·0001000100
10000	$2^4.5^4$	100000000	1000000000000	100·0000000	21·5443460	·0001000000

TABLE II.

CONTAINING

THE FIRST TEN POWERS OF ALL NUMBERS

from 1 to 100.

1st Pow.	2d Power.	3d Power.	4th Power.	5th Power.	6th Power.
1	1	1	1	1	1
2	4	8	16	32	64
3	9	27	81	243	729
4	16	64	256	1024	4096
5	25	125	625	3125	15625
6	36	216	1296	7776	46656
7	49	343	2401	16807	117649
8	64	512	4096	32768	262144
9	81	729	6561	59049	531441
10	100	1000	10000	100000	1000000
11	121	1331	14641	161051	1771561
12	144	1728	20736	248832	2985984
13	169	2197	28561	371293	4826809
14	196	2744	38416	537824	7529536
15	225	3375	50625	759375	11390625
16	256	4096	65536	1048576	16777216
17	289	4913	83521	1419857	24137569
18	324	5832	104976	1889568	34012224
19	361	6859	130321	2476099	47045881
20	400	8000	160000	3200000	64000000
21	441	9261	194481	4084101	85766121
22	484	10648	234256	5153632	113379904
23	529	12167	279841	6436343	148035889
24	576	13824	331776	7962624	191102976
25	625	15625	390625	9765625	244140625
26	676	17576	456976	11881376	308915776
27	729	19683	531441	14348907	387420489
28	784	21952	614656	17210368	481890304
29	841	24389	707281	20511149	594823321
30	900	27000	810000	24300000	729000000
31	961	29791	923521	28629151	887503681
32	1024	32768	1048576	33554432	1073741824
33	1089	35937	1185921	39135393	1291467969
34	1156	39304	1336336	45435424	1544804416
35	1225	42875	1500625	52521875	1838265625
36	1296	46656	1679616	60466176	2176782336
37	1369	50653	1874161	69343957	2565726409
38	1444	54872	2085136	79235168	3010936384
39	1521	59319	2313441	90224199	3518743761
40	1600	64000	2560000	102400000	4096000000
41	1681	68921	2825761	115856201	4750104241
42	1764	74088	3111696	130691232	5489031744
43	1849	79507	3418801	147008443	6321363049
44	1936	85184	3748096	164916224	7256313856
45	2025	91125	4100625	184528125	8303765625
46	2116	97336	4477456	205962976	9474296896
47	2209	103823	4879681	229345007	10779215329
48	2304	110592	5308416	254803968	12230590464
49	2401	117649	5764801	282475249	13841287201
50	2500	125000	6250000	312500000	15625000000

1st Pow.	7th Power.	8th Power.	9th Power.	10th Power.
1	1	1	1	1
2	128	256	512	1024
3	2187	6561	19683	59049
4	16384	65536	262144	1048576
5	78125	390625	1953125	9765625
6	279936	1679616	10077696	60466176
7	823543	5764801	40353607	282475249
8	2097152	16777216	134217728	1073741824
9	4782969	43046721	387420489	3486784401
10	10000000	100000000	1000000000	10000000000
11	19487171	214358881	2357947691	25937424601
12	35831808	429981696	5159780352	61917364224
13	62748517	815730721	10604499373	137858491849
14	105413504	1475789056	20661046784	289254654976
15	170859375	2562890625	38443359375	576650390625
16	268435456	4294967296	68719476736	1099511627776
17	410338673	6975757441	118587876497	2015993900449
18	612220032	11019960576	198359290368	3570467226624
19	893871739	16983563041	322687697779	6131066257801
20	1280000000	25600000000	5120000000000	102400000000000
21	1801085[illegible]	37822359361	794280046581	16679880978201
22	2494357888	54875873536	1207269217792	26559922791424
23	3404825447	78310985281	1801152661463	41426511213649
24	4586471424	110075314176	2641807540224	63403380965376
25	6103515625	152587890625	3814697265625	95367431640625
26	8031810176	208827064576	5429503678976	141167095653376
27	10460353203	282429536481	7625597484987	205891132094649
28	13492928512	377801998336	10578455953408	296196766695424
29	17249876309	500246412961	14507145975869	420707233300201
30	21870000000	656100000000	19683000000000	590490000000000
31	27512614111	852891037441	26439622160671	819628286980801
32	34359738368	1099511627776	35184372088832	1125899906842624
33	42618442977	1406408618241	46411484401953	1531578985264449
34	52523350144	1785793904896	607 6992766464	2064377754059776
35	64339296875	2251875390625	78815638671875	2758547853515625
36	78364164096	2821109907456	101559956668416	3656158440062976
37	94931877133	3512479453921	129961739795077	4808584872417849
38	114415582592	4347792138496	165216101262848	6278211847988224
39	137231006679	5352009260481	208728361158759	8140406085191601
40	163840000000	6553600000000	262144000000000	10485760000000000
41	194754273881	7984925229121	327381934393961	13422659310152401
42	230539333248	9682651996416	406671383849472	17080198121677824
43	271818611107	11688200277601	502592611936843	21611482313284249
44	319277809664	14048223625216	618121839509504	27197360938418176
45	373669453125	16815125390625	756680642578125	34050628916015625
46	435817657216	20047612231936	922190162669056	42420747482776576
47	506623120463	23811286661761	1119130473102767	52599132235830049
48	587068342272	28179280429056	1352605460594688	64925062108545024
49	678223072849	33232930569601	1628413597910449	79792266297612001
50	781250000000	39062500000000	1953125000000000	97656250000000000

1st Pow.	2d Power.	3d Power.	4th Power.	5th Power.	6th Power.
51	2601	132651	6765201	345025251	17596287801
52	2704	140608	7311616	380204032	19770609664
53	2809	148877	7890481	418195493	22164361129
54	2916	157464	8503056	459165024	24794911296
55	3025	166375	9150625	503284375	27680640625
56	3136	175616	9834496	550731776	30840979456
57	3249	185193	10556001	601692057	34296447249
58	3364	195112	11316496	656356768	38068692544
59	3481	205379	12117361	714924299	42180533641
60	3600	216000	12960000	777600000	46656000000
61	3721	226981	13845841	844596301	51520374361
62	3844	238328	14776336	916132832	56800235584
63	3969	250047	15752961	992436543	62523502209
64	4096	262144	16777216	1073741824	68719476736
65	4225	274625	17850625	1160290625	75418890625
66	4356	287496	18974736	1252332576	82653950016
67	4489	300763	20151121	1350125107	90458382169
68	4624	314432	21381376	1453933568	98867482624
69	4761	328509	22667121	1564031349	107918163081
70	4900	343000	24010000	1680700000	117649000000
71	5041	357911	25411681	1804229351	128100283921
72	5184	373248	26873856	1934917632	139314069504
73	5329	389017	28398241	2073071593	151334226289
74	5476	405224	29986576	2219006624	164206490176
75	5625	421875	31640625	2373046875	177978515625
76	5776	438976	33362176	2535525376	192699928576
77	5929	456533	35153041	2706784157	208422380089
78	6084	474552	37015056	2887174368	225199600704
79	6241	493039	38950081	3077056399	243087455521
80	6400	512000	40960000	3276800000	262144000000
81	6561	531441	43046721	3486784401	282429536481
82	6724	551368	45212176	3707398432	304006671424
83	6889	571787	47458321	3939040643	326940373369
84	7056	592704	49787136	4182119424	351298031616
85	7225	614125	52200625	4437053125	377149515625
86	7396	636056	54700816	4704270176	404567235136
87	7569	658503	57289761	4984209207	433626201009
88	7744	681472	59969536	5277319168	464404086784
89	7921	704969	62742241	5584059449	496981290961
90	8100	729000	65610000	5904900000	531441000000
91	8281	753571	68574961	6240321451	567869252041
92	8464	778688	71639296	6590815232	606355001344
93	8649	804357	74805201	6956883693	646990183449
94	8836	830584	78074896	7339040224	689869781056
95	9025	857375	81450625	7737809375	735091890625
96	9216	884736	84934656	8153726976	782757789696
97	9409	912673	88529281	8587340257	832972004929
98	9604	941192	92236816	9039207968	885842380864
99	9801	970299	96059601	9509900499	941480149401
100	10000	1000000	100000000	10000000000	1000000000000

1st Pow	7th Power.	8th Power.	9th Power.	10th Power.
51	897410677851	45767944570401	2334165173090451	119042423827613001
52	1028071702528	53459728531456	2779905883635172	144555105949057024
53	1174711139837	62259690411361	3299763591802133	174887470365513049
54	1338925209984	72301961339136	3904305912313344	210832519264920576
55	1522435234375	83733937890625	4605366583984375	253295162119140625
56	1727094849536	96717311574016	5416169448144896	303305489096114176
57	1954897493193	111429157112001	6351461955384057	3[illegible]033314569891249
58	2207984167552	128063081718016	7427658739644928	43[illegible]04206899405824
59	2488651484819	146830437604321	8662995818654939	511116753300641401
60	2799360000000	167961600000000	10077696000000000	604661760000000000
61	3142742836021	191707312997281	11694146092834141	713342911662882601
62	3521614606208	218340105584896	13537086546263552	839299365868340224
63	3938980639167	248155780267521	15633814156853823	984930291881790849
64	4398046511104	281474976710656	18014398509481984	1152921504606846976
65	4902227890625	318644812890625	20711912837890625	1346274334462890625
66	5455160701056	360040606269696	23762680013799936	1568336880910795776
67	6060711605323	406067677556641	27206534396294947	1822837804551761449
68	6722988818432	457163239653376	31087100296429568	2113922820157210624
69	7446353252589	513798374428641	35452087835576229	2446194060654759801
70	8235430000000	576480100000000	40353607000000000	2824752490000000000
71	9095120158391	645753531245761	45848500718449031	3255243551009881201
72	10030613004288	722204136308736	51998697814228992	3743906242624487424
73	11047398519097	806460091894081	58871586708267913	4297625829703557649
74	12151280273024	899194740203776	66540410775079424	4923990397355877376
75	13348388671875	1001129150390625	75084686979296875	5631351470947265625
76	14645194571776	1113034787454976	84590643846578176	6428888932339941376
77	16048523266853	1235736291547681	95151694449171437	7326680472586200649
78	17565568854912	1370114370683136	106868920913284608	8335775831236199424
79	19203908986159	1517108809906561	119851595982618319	9468276082626847201
80	20971520000000	1677721600000000	134217728000000000	10737418240000000000
81	22876792454961	1853020188851841	150094635296999121	12157665459056928801
82	24928547056768	2044140858654976	167619550409708032	13744803133596058624
83	27136050989627	2252292232139041	186940255267540403	15516041187205853449
84	29509034655744	2478758911082496	208215748530929664	17490122876598091776
85	32057708828125	2724905250390625	231616946283203125	19687440434072265625
86	34792782221696	2992179271065856	257327417311663616	22130157888803070976
87	37725479487783	3282116715437121	285544154243029527	24842341419143568849
88	40867559636992	3596345248055296	316478381828866048	27850097600940212224
89	44231334895529	3936588805702081	350356403707485209	31181719929966183601
90	47829690000000	4304672100000000	387420489000000000	34867844010000000000
91	51676101935731	4702525276151521	427929800129788411	38941611811810745401
92	55784660123648	5132188731375616	472161363286556672	43438845423633213824
93	60170087060757	5595818096650401	520411089288487293	48398230717929318249
94	64847759419264	6095689385410816	572994802228616704	53861511409489970176
95	69833729609375	6634204312890625	630249409724609375	59873693923837890625
96	75144747810816	7213895789838336	692533995824480256	66483263599150104576
97	80798284478113	7837433594376961	760231058654565217	73742412689492826049
98	86812553324672	8507630225817856	833747762130149888	81707280688754689024
99	93206534790699	9227446944279201	913517247483640899	90488207500880449001
100	100000000000000	100000000000000000	1000000000000000000	10000000000000000000

TABLE III.

OF THE

FOURTH AND FIFTH POWERS OF ALL NUMBERS

from 100 to 1000.

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
100	100000000	10000000000	150	506250000	75937500000
101	104060401	10510100501	151	519885601	78502725751
102	108243216	11040808032	152	533794816	81136812032
103	112550881	11592740743	153	547981281	83841135993
104	116985856	12166529024	154	562448656	86617093024
105	121550625	12762815625	155	577200625	89466096875
106	126247696	13382255776	156	592240896	92389579776
107	131079601	14025517307	157	607573201	95388992557
108	136048896	14693280768	158	623201296	98465804768
109	141158161	15386239549	159	639128961	101621504799
110	146410000	16105100000	160	655360000	104857600000
111	151807041	16850581551	161	671898241	108175616801
112	157351936	17623416832	162	688747536	111577100832
113	163047361	18424351793	163	705911761	115063617043
114	168896016	19254145824	164	723394816	118636749824
115	174900625	20113571875	165	741200625	122298103125
116	181063936	21003416576	166	759333136	126049300576
117	187388721	21924480357	167	777796321	129891985607
118	193877776	22877577568	168	796594176	133827821568
119	200533921	23863536599	169	815730721	137858491849
120	207360000	24883200000	170	835210000	141985700000
121	214358881	25937424601	171	855036081	146211169851
122	221533456	27027081632	172	875213056	150536645632
123	228886641	28153056843	173	895745041	154963892093
124	236421376	29316250624	174	916636176	159494694624
125	244140625	30517578125	175	937890625	164130859375
126	252047376	31757969376	176	959512576	168874213376
127	260144641	33038369407	177	981506241	173726604657
128	268435456	34359738368	178	1003875856	178689902368
129	276922881	35723051649	179	1026625681	183765996899
130	285610000	37129300000	180	1049760000	188956800000
131	294499921	38579489651	181	1073283121	194264244901
132	303595776	40074642432	182	1097199376	199690286432
133	312900721	41615795893	183	1121513121	205236901143
134	322417936	43204003424	184	1146228736	210906087424
135	332150625	44840334375	185	1171350625	216699865625
136	342102016	46525874176	186	1196883216	222620278176
137	352275361	48261724457	187	1222830961	228669389707
138	362673936	50049003168	188	1249198336	234849287168
139	373301041	51888844699	189	1275989841	241162079949
140	384160000	53782400000	190	1303210000	247609900000
141	395254161	55730836701	191	1330863361	254194901951
142	406586896	57735339232	192	1358954496	260919263232
143	418161601	59797108943	193	1387488001	267785184193
144	429981696	61917364224	194	1416468496	274794888224
145	442050625	64097340625	195	1445900625	281950621875
146	454371856	66338290976	196	1475789056	289254654976
147	466948881	68641485507	197	1506138481	296709280757
148	479785216	71008211968	198	1536955616	304316815968
149	492884401	73439775749	199	1568239201	312079600999

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
200	1600000000	320000000000	250	3906250000	976562500000
201	1632240801	328080401001	251	3969126001	996250626251
202	1664966416	336323216032	252	4032758016	1016255020032
203	1698181681	344730881243	253	4097152081	1036579476493
204	1731891456	353305857024	254	4162314256	1057227821024
205	1766100625	362050628125	255	4228250625	1078203909375
206	1800814096	370967703776	256	4294967296	1099511627776
207	1836036801	380059617807	257	4362470401	1121154893057
208	1871773696	389328928768	258	4430766096	1143137652768
209	1908029761	398778220049	259	4499860561	1165463885299
210	1944810000	408410100000	260	4569760000	1188136600000
211	1982119441	418227202051	261	4640470641	1211162837301
212	2019963136	428232184832	262	4711998736	1234548668832
213	2058346161	438427732293	263	4784350561	1258298197543
214	2097273616	448816553824	264	4857532416	1282418557824
215	2136750625	459401384375	265	4931550625	1306910915625
216	2176782336	470184984576	266	5006411536	1331785468576
217	2217373921	481170140857	267	5082121521	1357046446107
218	2258530576	492359665568	268	5158686976	1382698109568
219	2300257521	503756397099	269	5236114321	1408744752349
220	2342560000	515363200000	270	5314410000	1434890700000
221	2385443281	527182965101	271	5393580481	1461660310351
222	2428912656	539218609632	272	5473632256	1488827973632
223	2472973441	551473077343	273	5554571841	1516398112593
224	2517630976	563949338624	274	5636405776	1544377182624
225	2562890625	576650390625	275	5719140625	1572768671875
226	2608757776	589579257376	276	5802782976	1601568101376
227	2655237841	602738989907	277	5887339441	1630793025157
228	2702336256	616132666368	278	5972816656	1660443030368
229	2750058481	629763392149	279	6059221281	1690529737399
230	2798410000	643634300000	280	6146560000	1721056800000
231	2847396321	657748550151	281	6234839521	1751989905401
232	2897022976	672109330432	282	6324066576	1783386774432
233	2947295521	686719856893	283	6414247921	1815232161643
234	2998219536	701583371424	284	6505390336	1847530855424
235	3049800625	716703146875	285	6597500625	1880287678125
236	3102044416	732082482176	286	6690585616	1913507486176
237	3154956561	747724704957	287	6784652161	1947195170207
238	3208542736	763633171168	288	6879707136	1981355655168
239	3262808641	779811265199	289	6975757441	2015993900449
240	3317760000	796262400000	290	7072810000	2051114900000
241	3373402561	812990017201	291	7170871761	2086723682451
242	3429742096	829997587232	292	7269949696	2122825311232
243	3486784401	847288609443	293	7370050801	2159424884693
244	3544535296	864866612224	294	7471182096	2196527536224
245	3603000625	882735153125	295	7573350625	2234138434375
246	3662186256	900897818976	296	7676563456	2272262782976
247	3722098081	919358226007	297	7780827681	2310905821257
248	3782742016	938120019968	298	7886150416	2350072823968
249	3844124001	957186876249	299	7992538801	2389769101499

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
300	8100000000	2430000000000	350	15006250000	5252187500000
301	8208541201	2470770901501	351	15178486401	5327648726751
302	8318169616	2512087224032	352	15352201216	5403974828032
303	8428892481	2553954421743	353	15527402881	5481173216993
304	8540717056	2596377985024	354	15704099856	5559251349024
305	8653650625	2639363440625	355	15882300625	5638216721875
306	8767700496	2682916351776	356	16062013696	5718076875776
307	8882874001	2727042318307	357	16243247601	5798839393557
308	8999178496	2771746976768	358	16426010896	5880511900768
309	9116621361	2817036000549	359	16610312161	5963102065799
310	9235210000	2862915100000	360	16796160000	6046617600000
311	9354951841	2909390022551	361	16983563041	6131066957801
312	9475854336	2956466552832	362	17172529936	6216455836832
313	9597924961	3004150512793	363	17363069361	6302794178043
314	9721171216	3052447761824	364	17555190016	6390089165824
315	9845600625	3101364196875	365	17748900625	6478348728125
316	9971220736	3150905752576	366	17944209936	6567580836576
317	10098039121	3201078401357	367	18141126721	6657793506607
318	10226063376	3251888153568	368	18339659776	6748994797568
319	10355301121	3303341057599	369	18539817921	6841192812849
320	10485760000	3355443200000	370	18741610000	6934395700000
321	10617447681	3408200705601	371	18945044881	7028611650851
322	10750371856	3461619737632	372	19150131456	7123848901632
323	10884540241	3515706497843	373	19356878641	7220115739093
324	11019960576	3570467226624	374	19565295376	7317420470624
325	11156640625	3625908203125	375	19775390625	7415771484375
326	11294588176	3682035745376	376	19987173376	7515177189376
327	11433811041	3738856210407	377	20200652641	7615646045657
328	11574317056	3796375994368	378	20415837456	7717186558368
329	11716114081	3854601539649	379	20632736881	7819807277899
330	11859210000	3913539300000	380	20851360000	7923516800000
331	12003612721	3973195810651	381	21071715921	8028323765901
332	12149330176	4033577618432	382	21293813776	8134236862432
333	12296870321	4094691316893	383	21517662721	8241264892143
334	12444741136	4156543539424	384	21743271936	8349416423424
335	12594450625	4219140959375	385	21970650625	8458700490625
336	12745506816	4282490290176	386	22199808016	8569125894176
337	12897917761	4346598285457	387	22430753361	8680701550707
338	13051691536	4411471739168	388	22663495936	8793436493168
339	13206836241	4477117485699	389	22898045041	8907339520949
340	13363360000	4543542400000	390	23134410000	9022419900000
341	13521270961	4610753397701	391	23372600161	9138686662951
342	13680577296	4678757485232	392	23612624896	9256148959232
343	13841287201	4747561509943	393	23854493601	9374815985193
344	14003408896	4817172660224	394	24098215696	9494696984224
345	14166950625	4887597965625	395	24343800625	9615801246875
346	14331920656	4958844546976	396	24591257856	9738138110976
347	14498327281	5030919566507	397	24840596881	9861716961757
348	14666178816	5103830227968	398	25091827216	9986547231968
349	14835483601	5177583776749	399	25344958401	10112638401999

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
400	25600000000	10240000000000	450	41006250000	18452812500000
401	25856961601	10368641602001	451	41371966801	18658757027251
402	26114952816	10498572832032	452	41740124416	18866536236032
403	26376223281	10629803362253	453	42110733681	19076162357493
404	26639462656	10762342913024	454	42483805456	19287647677024
405	26904200625	10896201253125	455	42859350625	19501004534375
406	27170906896	11031388199776	456	43237380096	19716245323776
407	27439591201	11167913618807	457	43617904801	19933382494057
408	27710263296	11305787424768	458	44000935696	20152428548768
409	27982932961	11445019581049	459	44386483761	20373396046299
410	28257610000	11585620100000	460	44774560000	20596297600000
411	28534304241	11727599043051	461	45165175441	20821145878301
412	28813025536	11870966520832	462	45558341136	21047953604832
413	29093783761	12015732693293	463	45954068161	21276733558543
414	29376588816	12161907769824	464	46352367616	21507498573824
415	29662150025	12309502009375	465	46753250625	21740261540625
416	29948379136	12458525720576	466	47156728336	21975034404576
417	30237384321	12608989261857	467	47562811921	22211833167107
418	30528476176	12760903041568	468	47971512576	22450667885568
419	30821664721	12914277518099	469	48382841521	22691552673349
420	31116960000	13069123200000	470	48796810000	22934500700000
421	31414372081	13225450646101	471	49213429281	23179525191351
422	31713911056	13383270465632	472	49632710656	23426639429632
423	32015587041	13542593318343	473	50054665441	23675856753593
424	32319410176	13703429914624	474	50479304976	23927190558624
425	32625390625	13865791015625	475	50906640625	24180654296875
426	32933538576	14029687433376	476	51336683776	24436261477376
427	33243864241	14195130030907	477	51769445841	24694025666157
428	33556377856	14362129722368	478	52204938256	24953960486368
429	33871089681	14530697473149	479	52643172481	25216079618399
430	34188010000	14700844300000	480	53084160000	25480396800000
431	34507149121	14872581271151	481	53527912321	25746925826401
432	34828517376	15045919506432	482	53974440976	26015680550432
433	35152125121	15220870177393	483	54423757521	26287667869473
434	35477982736	15397444507424	484	54875873536	26559922791424
435	35806100625	15575653771875	485	55330800625	26835438309125
436	36136489216	15755509298176	486	55788550416	27113235502176
437	36469158961	15937022465957	487	56249134561	27393328531207
438	36804120336	16120204707168	488	56712564736	27675731591168
439	37141383841	16305067506199	489	57178852641	27960458941441
440	37480960000	16491622400000	490	57648010000	28247524900000
441	37822859361	16679880978201	491	58120048561	28536943843451
442	38167092496	16869854883232	492	58594980096	28828730207232
443	38513670001	17061555810443	493	59072816401	29122898485693
444	38862602496	17254995508224	494	59553569296	29419463232224
445	39213900625	17450185778125	495	60037250625	29718439059375
446	39567575056	17647138474976	496	60523878256	30019840638976
447	39923636481	17845865507007	497	61013446081	30323682702257
448	40282095616	18046378835968	498	61505984016	30629980039968
449	40642963201	18248690477249	499	62001498001	30938747502499

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
500	62500000000	31250000000000	550	91506250000	50328437500000
501	63001502001	31563752502501	551	92173567201	50787635527751
502	63506016016	31880020040032	552	92844527616	51250179244032
503	64013554081	32198817702743	553	93519144481	51716086897993
504	64524128256	32520160641024	554	94197431056	52185376805024
505	65037750625	32844064065625	555	94879400625	52658067297375
506	65554433296	33170543247776	556	95565066496	53134176971776
507	66074188401	33499313519307	557	96254442001	53613724194557
508	66597028096	33831290272768	558	96947540496	54096727596768
509	67122964561	34165588961549	559	97644375361	54587705826799
510	67652010000	34502525100000	560	98344960000	55073177600000
511	68184176641	34842114263731	561	99049307841	55566662240331
512	68719476736	35184372088832	562	99757432336	56063676972832
513	69257922561	35529314273793	563	100469346961	56564242339043
514	69799526416	35876956577824	564	101185065216	57068376781824
515	70344300625	36227314821875	565	101904600625	57576099353125
516	70892257536	36580404888576	566	102627966736	58087429172576
517	71443409521	36936242722357	567	103355177121	58602385427607
518	71997768976	37294844329568	568	104086245376	59120987373568
519	72555348321	37656225778599	569	104821185121	59643254933849
520	73116160000	38020403200000	570	105560010000	60169205700000
521	73680216481	38387392786601	571	106302733681	60698860931851
522	74247530256	38757210793632	572	107049369856	61232239557632
523	74818113841	39129873538843	573	107799932241	61769361174093
524	75391979776	39505397402624	574	108554434576	62310245446624
525	75969185693	39883798828125	575	109312890625	62854912109375
526	76549698976	40265094321376	576	110075314176	63403380965376
527	77133442441	40649300451407	577	110841719041	63955671886657
528	77720518656	41036433850368	578	111612119056	64511804814368
529	78310985281	41426511213649	579	112386528081	65071799758899
530	78904810000	41819549300000	580	113164960000	65635676800000
531	79502005521	42215564931651	581	113947428721	66203456086901
532	80102584576	42614574994432	582	114733948176	66775157838432
533	80706559921	43016546437943	583	115524532321	67350802343143
534	81313944336	43421646275424	584	116319195136	67930409959424
535	81924750625	43829741584375	585	117117950625	68514001115625
536	82538991616	44240899506176	586	117920812816	69101596310176
537	83156680161	44655137246457	587	118727795761	69693216111707
538	83777829136	45072472075168	588	119538913536	70288881159168
539	84402451441	45492921326699	589	120354180241	70888612161949
540	85030560000	45916502400000	590	121173610000	71492429900000
541	85662167761	46343232758701	591	121997216961	72100355223951
542	86297287696	46773129931232	592	122825015296	72712409055232
543	86935932801	47206211510943	593	123657019201	73328612386193
544	87578116096	47642495156224	594	124493242896	73948986280224
545	88223850625	48081998590625	595	125333700625	74574451871875
546	88873149456	48524739602976	596	126178406656	75202330366976
547	89526025681	48970736047507	597	127027375281	75835343042757
548	90182492416	49420005843968	598	127880620816	76472611247968
549	90842562801	49872566977749	599	128738157601	77114156402999

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
600	129600000000	77760000000000	650	178506250000	116029062500000
601	130466162401	78410163603001	651	179607287601	116924344228251
602	131336659216	79064668848032	652	180713410816	117825143852032
603	132211504881	79723537443243	653	181824635281	118731486838493
604	133090713856	80386791169024	654	182940976656	119643398733024
605	133974300625	81054451878125	655	184062450625	120560905159375
606	134862279696	81726541495776	656	185189072896	121484031819776
607	135751665601	82403082019807	657	186320859201	122412804495057
608	136651472896	83084095520768	658	187457825296	123347249044768
609	137552716161	83769604142049	659	188599986961	124287391407299
610	138458410000	84459630100000	660	189747360000	125233257600000
611	139368569041	85154195684051	661	190899960241	126184873719301
612	140283207936	85853323256832	662	192057803536	127142265940832
613	141202341361	86557035254293	663	193220905761	128105460519543
614	142125984016	87265354185824	664	194389282816	129074483789824
615	143054150625	87978302634375	665	195562950625	130049362165625
616	143986855936	88695903256576	666	196741925136	131030122140576
617	144924114721	89418178782857	667	197926222321	132016790288107
618	145865941776	90145152017568	668	199115858176	133009393261568
619	146812351921	90876845839099	669	200310848721	134007957794349
620	147763360000	91613283200000	670	201511210000	135012510700000
621	148718980881	92354487127101	671	202716958081	136023078872351
622	149679229456	93100480721632	672	203928109056	137039689285632
623	150644120641	93851287159343	673	205144679041	138062368994593
624	151613669376	94606929690624	674	206366684176	139091145134624
625	152587890625	95367431640625	675	207594140625	140126044921875
626	153566799376	96132816409376	676	208827064576	141167095653376
627	154550410641	96903107471907	677	210065472241	142214324707157
628	155538739456	97678328378368	678	211309379856	143267759542368
629	156531800431	98458502754149	679	212558803681	144327427699399
630	157529610000	99243654300000	680	213813760000	145393356800000
631	158532181921	100033806792151	681	215074265121	146465574547401
632	159539531776	100828984082432	682	216340335376	147544108726432
633	160551674721	101629210098393	683	217611987121	148628987203643
634	161568625936	102434508843424	684	218889236736	149720237927424
635	162590400625	103244904396875	685	220172100625	150817888928125
636	163617014016	104060420914176	686	221460595216	151919968318176
637	164648481361	104881082626957	687	222754736961	153032504292207
638	165684817936	105706913843168	688	224054542336	154149525127168
639	166726039041	106537938947199	689	225360027841	155273059182449
640	167772160000	107374182400000	690	226671210000	156403134900000
641	168823196161	108215668739201	691	227988105361	157539780804451
642	169879162896	109062422579232	692	229310730496	158683025503232
643	170940075601	109914468611443	693	230639102001	159832897686693
644	172005949696	110771831604224	694	231973236496	160989426128224
645	173076800625	111634536403125	695	233313150625	162153639684375
646	174152643856	112502607930976	696	234658861056	163325567294976
647	175233494881	113376071188007	697	236010384481	164499237983257
648	176319369216	114254951251968	698	237367737616	165682680855968
649	177410282401	115139273278249	699	238730937201	166872925103499

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
700	240100000000	168070000000000	750	316406250000	237304687500000
701	241474942801	169273934903501	751	318097128001	238890943125151
702	242855782416	170484759256032	752	319794774016	240485670060032
703	244242535681	171702502583743	753	321499206081	242088902178993
704	245635219456	172927194497024	754	323210442256	243700673461024
705	247033850625	174158864690625	755	324928500625	245321017971875
706	248438446096	175397542943776	756	326653399296	246949969867776
707	249849015701	176643259120307	757	328385156401	248587563395557
708	251265597696	177896043168768	758	330123790096	250233832892768
709	252688187761	179155925122549	759	331869318561	251888812787799
710	254116810000	180422935100000	760	333621760000	253552537600000
711	255551481441	181697103304551	761	335381132641	255225041939801
712	256992219136	182978460024832	762	337147454736	256906360508832
713	258439040161	184267035634793	763	338920744561	258605528100043
714	259891961616	185562860593824	764	340701020416	260295579597824
715	261351000625	186865965446875	765	342488300625	262003549978125
716	262816174336	188176380824576	766	344282603536	263720474308576
717	264287499921	189494137443357	767	346083947521	265405778758607
718	265764994576	190819266105568	768	347892350976	267181325549568
719	267248675521	192151797699599	769	349707832321	268925323054849
720	268738560000	193491763200000	770	351530410000	270678415700000
721	270234665281	194839193667601	771	353360102481	272440639012851
722	271737008656	196194120249632	772	355196928256	274212028613632
723	273245607441	197556574179843	773	357040905841	275992620215093
724	274760478976	198926586778624	774	358892053776	277782449622624
725	276281640625	200304189953125	775	360750390625	279581552734375
726	277809109776	201689413697376	776	362615934976	281389965541376
727	279342903841	203082291092407	777	364488705441	283211954127657
728	280883040256	204482853306368	778	366368720656	285034864670368
729	282429536481	205891132094649	779	368255999281	286871423439899
730	283982410000	207307159300000	780	370150560000	288717436800000
731	285541678321	208730966852651	781	372052421521	290572941207901
732	287107358976	210162586770432	782	373961602576	292437973214432
733	288679469521	211602051158693	783	375878121921	294312569464143
734	290258027536	213049392211424	784	377801998336	296196766695424
735	291843050625	214504642209375	785	379733250625	298090601740625
736	293434556416	215967833523176	786	381671897616	299994111526176
737	295032562561	217438998607457	787	383617958161	301907333072707
738	296637086736	218918170011168	788	385571451136	303830303495168
739	298248146641	220405380367699	789	387532395441	305763060002949
740	299865760000	221900662400000	790	389500810000	307705639900000
741	301489944561	223404048919701	791	391476713761	309658080584951
742	303120718096	224915572827232	792	393460125696	311620419551232
743	304758098401	226435267111943	793	395451064801	313592694387193
744	306402103296	227963164852224	794	397449550096	315574942776224
745	308052750625	229499299215625	795	399455600625	317567202496875
746	309710058256	231043702458976	796	401469235456	319569511422976
747	311374044081	232596410928507	797	403490473681	321581907523757
748	313044726016	234157455059968	798	405519334416	323604428863968
749	314722122001	235726869378749	799	407555836801	325637113603999

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
800	409600000000	327680000000000	850	522006250000	443705312500000
801	411651843201	329733126404001	851	524467088401	446321492229251
802	413711385616	331796581264032	852	526936617216	448949997868032
803	415778646481	333870253124243	853	529414856881	451590872919493
804	417839245056	335954330625024	854	531901827856	454244160989024
805	419925600625	338040108503125	855	534397550625	456909905784375
806	422019732496	340136709392096	856	536902045696	459588151115776
807	424121660001	342266179620807	857	539415333601	462278940896057
808	426231402496	344394973216768	858	541937434896	464982319140768
809	428345379361	346531411903049	859	544468370161	467698329968299
810	430467810000	348678440100000	860	547008160000	470427017600000
811	432596913841	350836092125051	861	549556824041	473168426360301
812	434734510336	353004422592832	862	552114385936	475922600676832
813	436880018961	355183455415293	863	554680863361	478689585080543
814	439033459216	357373235801824	864	557256278016	481469424205824
815	441194850625	359573803259375	865	559840650625	484262162790625
816	443364212736	361785197592576	866	562434001936	487067845676576
817	445541565121	364007458703857	867	565036352721	489886517809107
818	447726927376	366240626593568	868	567647723776	492718224237568
819	449920319121	368484741360099	869	570268135921	495563010115849
820	452121760000	370739843200000	870	572897610000	498420920700000
821	454331269681	373005972408101	871	575536166881	501292001353351
822	456548867856	375283169377632	872	578183827456	504176297541632
823	458774574241	377571474600343	873	580840612641	507075854835593
824	461008408576	379870928666624	874	583506543376	509984718910624
825	463250390625	382181572265625	875	586181640625	512908935546875
826	465500540176	384503446185376	876	588865925376	515846550629376
827	467758877041	386841681802907	877	591559418641	518797610146357
828	470025421056	389191048634368	878	594262141456	521762160198868
829	472300192081	391552659235149	879	596974114881	524740246980399
830	474583210000	393926064300000	880	599695360000	527731916800000
831	476874494721	396312705113151	881	602425897921	530737216068401
832	479174066176	398672823058432	882	605165749776	533756191302432
833	481481944321	401074459619393	883	607914936721	536788889124643
834	483798149136	403487656379424	884	610673479936	539835356263424
835	486122700625	405912455021875	885	613441400625	542895639553125
836	488455618816	408348897330176	886	616218720016	545969785934176
837	490796923761	410797025187957	887	619005459361	549057842453207
838	493146635536	413256880579168	888	621801639936	552159856263168
839	495504774241	415728505588199	889	624607283041	555275874623449
840	497871360000	418211949400000	890	627422410000	558405944900000
841	500246412961	420707233300201	891	630247049161	561550114565451
842	502629953296	423214420675232	892	633081200896	564708431199232
843	505022001201	425733547019443	893	635924907601	567880942487693
844	507422576896	428264654900224	894	638778183696	571066769224224
845	509831700625	430807787098125	895	641641050625	574268740309375
846	512249392656	433362986186976	896	644513529856	577484122750976
847	514675673281	435930295269007	897	647395642881	580713891664257
848	517110562816	438509757267968	898	650287411216	583958095271968
849	519554081601	441101415279249	899	653188956401	587216781906299

Num.	4th Power.	5th Power.	Num.	4th Power.	5th Power.
900	656100000000	590490000000000	950	814506250000	773780937500000
901	659020863601	593777798104501	951	817941168801	777862051529751
902	661951468816	597080224872032	952	821386940416	781960367276032
903	664891837281	600397329064743	953	824843587681	786075939059993
904	667841990656	603729159553024	954	828311133456	790208821317024
905	670801950625	607075765315625	955	831789600625	794359068596875
906	673771738896	610437195439776	956	835279012096	798526735563776
907	676751377201	613813499121307	957	838779390801	802711876996557
908	679740887296	617204725664768	958	842290759696	806914547788768
909	682740290961	620610924483549	959	845813141761	811134802948799
910	685749610000	624032145100000	960	849346560000	815372697600000
911	688768866241	627468437145551	961	852891037441	819628286980801
912	691798081536	630919850360832	962	856446597136	823901626444832
913	694837277761	634386434595793	963	860013262161	828192771461043
914	697886476816	637868239809824	964	863591055616	832501777613824
915	700945700625	641365315871875	965	867180000625	836844588392405
916	704014971136	644877713560576	966	870780120336	841205371823136
917	707094310321	648405482564357	967	874391437921	845552408258887
918	710183740176	651948673481568	968	878013976576	849917529325568
919	713283282721	655507336820599	969	881647759521	854316678975849
920	716392960000	659081523200000	970	885292810000	858734025700000
921	719512794081	662671283348601	971	888949151281	863169625893851
922	722642807056	666276668105632	972	892616806656	867623536069632
923	725783021041	669897728420843	973	896295799441	872095812856093
924	728933458176	673534515354624	974	899986152976	876586512998624
925	732094140625	677187080078125	975	903687890625	881095693359375
926	735265090576	680855473873376	976	907401035776	885623410917376
927	738446330241	684539748133407	977	911125611841	890169722768657
928	741637881856	688239954362368	978	914861642256	894734686126368
929	744839767681	691956144175649	979	918609150481	899318358320899
930	748052010000	695688369300000	980	922368160000	903920796800000
931	751274631121	699436681573651	981	926138694321	908542059128901
932	754507653376	703201132946432	982	929920776976	913182902990432
933	757751099121	706981775479893	983	933714431521	917841286183343
934	761004990736	710778661347424	984	937519681536	922519366031424
935	764269350625	714591842834375	985	941336550625	927216502365625
936	767544201216	718421372338176	986	945165062416	931932751542176
937	770829564961	722267302368457	987	949005240561	936668172433707
938	774125464336	726129685547168	988	952857108736	941422823431168
939	777431921841	730008574608699	989	956720690641	946196763043949
940	780748960000	733904022400000	990	960596010000	950990049900000
941	784076601361	737816081880701	991	964483090561	955802742745951
942	787414868496	741744806123232	992	968381956096	960634900447232
943	790763784001	745690248312943	993	972292630401	965486581988193
944	794123370496	749652461748224	994	976215137296	970357846472224
945	797493650625	753631499840625	995	980149500625	975248753121875
946	800874647056	757627416114976	996	984095744256	980159361278976
947	804266382181	761640964209507	997	988053892081	985089730404757
948	807668879616	765670097875968	998	992023968016	990039920079968
949	811082161201	769716970979749	999	996095996001	995009990004999

TABLE IV.

FOR THE

SOLUTION OF THE IRREDUCIBLE CASE

IN CUBIC EQUATIONS.

y	0	1	2	3	4
1000	00000000	00020003	00040012	00060027	00080048
1001	00200500	00220363	00240432	00260507	00280588
1002	00401201	00421324	00441453	00461588	00481729
1003	00602703	00622886	00643075	00663271	00683472
1004	00804806	00825050	00845299	00865555	00885817
1005	01007513	01027816	01048126	01068442	01088764
1006	01210822	01231186	01251556	01271932	01292314
1007	01414734	01435159	01455589	01476026	01496469
1008	01619251	01639736	01660227	01680724	01701227
1009	01824373	01844918	01865470	01886027	01906591
1010	02030100	02050706	02071318	02091936	02112560
1011	02236433	02257100	02277772	02298451	02319136
1012	02443373	02464100	02484834	02505573	02526319
1013	02650920	02671708	02692502	02713302	02734109
1014	02859074	02879923	02900778	02921639	02942507
1015	03067838	03088747	03109663	03130585	03151513
1016	03277210	03298180	03319157	03340140	03361129
1017	03487191	03508223	03529261	03550305	03571355
1018	03697783	03718876	03739975	03761080	03782190
1019	03908986	03930140	03951300	03972466	03993638
1020	04120800	04142015	04163236	04184464	04205697
1021	04333226	04354502	04375785	04397074	04418368
1022	04546265	04567602	04588946	04610296	04631652
1023	04759917	04781316	04802721	04824132	04845549
1024	04974182	04995643	05017109	05038582	05060061
1025	05189063	05210584	05232112	05253646	05275187
1026	05404558	05426141	05447730	05469326	05490928
1027	05620668	05642313	05663964	05685622	05707285
1028	05837395	05859102	05880815	05902534	05924259
1029	06054739	06076507	06098282	06120062	06141849
1030	06272700	06294530	06316366	06338209	06360057
1031	06491279	06513171	06535069	06556973	06578884
1032	06710477	06732431	06754391	06776357	06798329
1033	06930294	06952309	06974331	06996360	07018394
1034	07150730	07172808	07194892	07216982	07239079
1035	07371788	07393927	07416073	07438226	07460384
1036	07593466	07615668	07637876	07660090	07682311
1037	07815765	07838029	07860300	07882577	07904859
1038	08038687	08061014	08083346	08105684	08128030
1039	08262232	08284621	08307016	08329417	08351824
1040	08486400	08508851	08531308	08553772	08576242
1041	08711192	08733705	08756225	08778751	08801284
1042	08936609	08959185	08981767	09004356	09026951
1043	09162651	09185289	09207934	09230585	09253243
1044	09389318	09412020	09434727	09457441	09480161
1045	09616613	09639377	09662147	09684923	09707706
1046	09844534	09867360	09890193	09913032	09935878
1047	10073082	10095972	10118867	10141769	10164678
1048	10302259	10325211	10348170	10371135	10394106
1049	10532065	10555080	10578101	10601129	10624163
1050	10762500	10785578	10808663	10831753	10854850

y	5	6	7	8	9
1000	00100075	00120108	00140147	00160192	00180243
1001	00300675	00320768	00340867	00360973	00381084
1002	00501876	00522030	00542189	00562354	00582525
1003	00703679	00723893	00744112	00764337	00784569
1004	00906084	00926358	00946637	00966923	00987215
1005	01109092	01129426	01149766	01170112	01190464
1006	01312702	01333097	01353497	01373903	01394316
1007	01516917	01537372	01557833	01578299	01598772
1008	01721736	01742252	01762773	01783300	01803833
1009	01927160	01947736	01968318	01988906	02009500
1010	02133191	02153827	02174470	02195118	02215773
1011	02339827	02360524	02381227	02401936	02422652
1012	02547070	02567828	02588592	02609362	02630138
1013	02754921	02775740	02796564	02817395	02838232
1014	02963380	02984259	03005145	03026036	03046934
1015	03172447	03193388	03214334	03235286	03256245
1016	03382124	03403125	03424133	03445146	03466166
1017	03592411	03613473	03634542	03655617	03676697
1018	03803307	03824431	03845561	03866697	03887838
1019	04014816	04036001	04057192	04078388	04099591
1020	04226937	04248182	04269434	04290692	04311956
1021	04439669	04460976	04482289	04503608	04524933
1022	04653014	04674352	04695757	04717137	04738524
1023	04866973	04888402	04909838	04931280	04952728
1024	05081546	05103037	05124534	05146037	05167547
1025	05296733	05318286	05339844	05361409	05382980
1026	05512536	05534150	05555770	05577397	05599030
1027	05728955	05750630	05772312	05794000	05815695
1028	05945990	05967727	05989471	06011221	06032977
1029	06163642	06185441	06207247	06229058	06250876
1030	06381912	06403773	06425640	06447514	06469393
1031	06600800	06622723	06644653	06666588	06688529
1032	06820308	06842293	06864284	06886281	06908284
1033	07040435	07062481	07084534	07106593	07128659
1034	07261181	07283290	07305405	07327526	07349654
1035	07482549	07504720	07526897	07549080	07571270
1036	07704538	07726771	07749010	07771256	07793507
1037	07927148	07949444	07971745	07994053	08016367
1038	08150382	08172739	08195103	08217473	08239849
1039	08374238	08396658	08419084	08441516	08463955
1040	08598718	08621200	08643689	08666184	08688685
1041	08823822	08846367	08868918	08891475	08914039
1042	09049552	09072159	09094772	09117392	09140018
1043	09275906	09298576	09321252	09343935	09366623
1044	09502887	09525619	09548358	09571103	09593855
1045	09730495	09753290	09776091	09798899	09821713
1046	09958729	09981587	10004452	10027322	10050199
1047	10187592	10210513	10233440	10256374	10279318
1048	10417083	10440067	10463057	10486053	10509056
1049	10647204	10670250	10693303	10716363	10739428
1050	10877954	10901063	10924179	10947301	10970430

y	0	1	2	3	4
1051	10993565	11016706	11039854	11063008	11086168
1052	11225261	11248465	11271676	11294896	11318116
1053	11457588	11480855	11504129	11527409	11550695
1054	11690546	11713877	11737214	11760557	11783907
1055	11924138	11947531	11970932	11994338	12017751
1056	12158362	12181819	12205282	12228752	12252229
1057	12393219	12416740	12440267	12463800	12487340
1058	12628711	12652295	12675886	12699483	12723086
1059	12864838	12888486	12912139	12935800	12959466
1060	13101600	13125311	13149029	13172753	13196483
1061	13338998	13362773	13386554	13410342	13434136
1062	13577033	13600871	13624716	13648567	13672425
1063	13815705	13839607	13863516	13887431	13911352
1064	14055014	14078980	14102953	14126932	14150917
1065	14294963	14318992	14343029	14367072	14391121
1066	14535550	14559643	14583744	14607850	14631963
1067	14776776	14800934	14825098	14849269	14873446
1068	15018643	15042865	15067093	15091328	15115569
1069	15261151	15285437	15309729	15334028	15358334
1070	15504300	15528650	15553007	15577370	15601739
1071	15748091	15772506	15796926	15821354	15845787
1072	15992525	16017004	16041489	16065980	16090478
1073	16237602	16262145	16286694	16311250	16335813
1074	16483322	16507930	16532544	16557164	16581791
1075	16729688	16754359	16779038	16803723	16828414
1076	16976698	17001434	17026177	17050926	17075682
1077	17224353	17249154	17273962	17298776	17323596
1078	17472655	17497521	17522393	17547272	17572157
1079	17721604	17746534	17771471	17796415	17821365
1080	17971200	17996195	18021197	18046205	18071220
1081	18221444	18246504	18271571	18296644	18321723
1082	18472337	18497462	18522593	18547731	18572876
1083	18723879	18749069	18774265	18799468	18824677
1084	18976070	19001325	19026587	19051855	19077129
1085	19228913	19254233	19279559	19304892	19330232
1086	19482406	19507791	19533182	19558581	19583986
1087	19736550	19762001	19787457	19812921	19838391
1088	19991347	20016863	20042385	20067914	20093449
1089	20246797	20272378	20297965	20323559	20349160
1090	20502900	20528546	20554200	20579859	20605524
1091	20759657	20785369	20811087	20836812	20862543
1092	21017069	21042846	21068630	21094420	21120217
1093	21275136	21300978	21326828	21352684	21378546
1094	21533858	21559767	21585682	21611603	21637531
1095	21793238	21819212	21845192	21871179	21897173
1096	22053274	22079313	22105360	22131413	22157472
1097	22313967	22340073	22366185	22392304	22418429
1098	22575319	22601491	22627669	22653853	22680044
1099	22837330	22863567	22889811	22916062	22942319
1100	23100000	23126303	23152613	23178930	23205253
1101	23363330	23389700	23416075	23442458	23468847
1102	23627321	23653756	23680198	23706647	23733102

y	5	6	7	8	9
1051	11109334	11132507	11155686	11178871	11202063
1052	11341345	11364581	11387823	11411072	11434327
1053	11573988	11597287	11620592	11643904	11667222
1054	11807263	11830625	11853994	11877369	11900750
1055	12041170	12064596	12088028	12111466	12134911
1056	12275711	12299200	12322695	12346197	12369705
1057	12510886	12534438	12557997	12581562	12605133
1058	12746695	12770311	12793933	12817562	12841197
1059	12983139	13006819	13030505	13054197	13077895
1060	13220220	13243963	13267712	13291468	13315230
1061	13457936	13481742	13505556	13529375	13553201
1062	13696289	13720159	13744036	13767919	13791809
1063	13935280	13959214	13983154	14007101	14031055
1064	14174909	14198907	14222911	14246922	14270939
1065	14415176	14439238	14463306	14487381	14511462
1066	14656083	14680209	14704341	14728480	14752625
1067	14897630	14921830	14946016	14970219	14994428
1068	15139817	15164071	15188331	15212598	15236871
1069	15382645	15406963	15431288	15455619	15479956
1070	15626115	15650498	15674886	15699281	15723683
1071	15870228	15894674	15919127	15943587	15968052
1072	16114983	16139494	16164011	16188535	16213065
1073	16360382	16384957	16409539	16434127	16458721
1074	16606424	16631064	16655710	16680363	16705022
1075	16853112	16877816	16902527	16927244	16951968
1076	17100445	17125214	17149989	17174770	17199559
1077	17348423	17373257	17398097	17422943	17447796
1078	17597049	17621947	17646851	17671762	17696680
1079	17846321	17871284	17896253	17921229	17946211
1080	18096241	18121269	18146303	18171343	18196391
1081	18346809	18371902	18397001	18422106	18447218
1082	18598027	18623184	18648348	18673518	18698695
1083	18849893	18875116	18900345	18925580	18950822
1084	19102410	19127698	19152992	19178292	19203599
1085	19355578	19380930	19406289	19431655	19457027
1086	19609391	19634814	19660238	19685669	19711106
1087	19863867	19889350	19914840	19940336	19965838
1088	20118990	20144539	20170093	20195655	20221223
1089	20374767	20400380	20426000	20451627	20477260
1090	20631197	20656876	20682561	20708253	20733952
1091	20888281	20914026	20939777	20965534	20991298
1092	21146020	21171830	21197647	21223470	21249300
1093	21404415	21430291	21456173	21482061	21507957
1094	21663466	21689407	21715355	21741309	21767270
1095	21923173	21949180	21975194	22001214	22027240
1096	22183538	22209611	22235690	22261776	22287868
1097	22444561	22470699	22496844	22522996	22549154
1098	22706242	22732447	22758657	22784875	22811099
1099	22968582	22994853	23021130	23047413	23073703
1100	23231583	23257919	23284262	23310611	23336967
1101	23495243	23521645	23548054	23574470	23600892
1102	23759564	23786033	23812508	23838989	23865478

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1103	23891973	23918474	23944982	23971497	23998019
1104	24157286	24183854	24210429	24237010	24263597
1105	24423268	24449897	24476537	24503185	24529839
1106	24689902	24716602	24743309	24770023	24796743
1107	24957204	24983971	25010745	25037525	25064311
1108	25225171	25252004	25278844	25305691	25332544
1109	25493803	25520703	25547609	25574522	25601442
1110	25763100	25790066	25817039	25844019	25871006
1111	26033063	26060096	26087136	26114182	26141235
1112	26303693	26330792	26357899	26385012	26412131
1113	26574990	26602156	26629329	26656509	26683695
1114	26846954	26874188	26901428	26928674	26955927
1115	27119588	27146888	27174194	27201508	27228828
1116	27392890	27420257	27447630	27475011	27502398
1117	27666861	27694295	27721736	27749183	27776638
1118	27941503	27969004	27996512	28024027	28051548
1119	28216816	28244384	28271959	28299541	28327129
1120	28492800	28520435	28548077	28575726	28603382
1121	28769456	28797159	28824868	28852584	28880307
1122	29046784	29074555	29102331	29130115	29157905
1123	29324787	29352624	29380468	29408319	29436176
1124	29603462	29631367	29659278	29687197	29715121
1125	29882813	29910785	29938764	29966749	29994742
1126	30162838	30190877	30218924	30246977	30275037
1127	30443538	30471646	30499760	30527880	30556008
1128	30724915	30753090	30781272	30809460	30837655
1129	31006969	31035212	31063461	31091717	31119980
1130	31289700	31318010	31346328	31374652	31402982
1131	31573109	31601487	31629872	31658264	31686663
1132	31857197	31885643	31914096	31942556	31971022
1133	32141964	32170478	32198999	32227526	32256061
1134	32427410	32455992	32484581	32513177	32541780
1135	32713538	32742188	32770845	32799508	32828179
1136	33000346	33029064	33057789	33086521	33115260
1137	33287835	33316622	33345415	33374215	33403022
1138	33576007	33604862	33633723	33662592	33691467
1139	33864862	33893785	33922715	33951652	33980595
1140	34154400	34183391	34212390	34241395	34270407
1141	34444622	34473682	34502749	34531822	34560903
1142	34735529	34764657	34793792	34822934	34852083
1143	35027121	35056318	35085521	35114732	35143949
1144	35319398	35348664	35377936	35407216	35436502
1145	35612363	35641697	35671038	35700386	35729740
1146	35906014	35935417	35964826	35994243	36023667
1147	36200352	36229824	36259303	36288788	36318280
1148	36495379	36524920	36554467	36584022	36613583
1149	36791095	36820704	36850321	36879944	36909574
1150	37087500	37117178	37146861	37176556	37206255
1151	37384595	37414343	37444097	37473858	37503626
1152	37682380	37712197	37742021	37771851	37801689
1153	37980858	38010743	38040636	38070536	38100442
1154	38280026	38309981	38339943	38369912	38399888

y	5	6	7	8	9
1103	24024547	24051081	24077623	24104171	24130725
1104	24290192	24316792	24343400	24370014	24396635
1105	24556499	24583166	24609840	24636521	24663208
1106	24823470	24850204	24876944	24903691	24930444
1107	25091105	25117905	25144711	25171525	25198345
1108	25359404	25386270	25413144	25440023	25466910
1109	25628368	25655301	25682241	25709187	25736140
1110	25897998	25924998	25952004	25979017	26006037
1111	26168295	26195361	26222434	26249514	26276600
1112	26439258	26466391	26493531	26520677	26547830
1113	26710889	26738088	26765295	26792508	26819728
1114	26983187	27010454	27037727	27065007	27092294
1115	27256156	27283488	27310829	27338176	27365529
1116	27529792	27557192	27584599	27612013	27639434
1117	27804098	27831566	27859040	27886521	27914009
1118	28079076	28106610	28134152	28161700	28189254
1119	28354724	28382326	28409934	28437549	28465171
1120	28631044	28658713	28686389	28714071	28741760
1121	28908036	28935773	28963516	28991265	29019022
1122	29185702	29213505	29241315	29269132	29296956
1123	29464040	29491911	29519789	29547673	29575564
1124	29743053	29770991	29798937	29826888	29854847
1125	30022741	30050747	30078759	30106779	30134805
1126	30303103	30331177	30359257	30387344	30415438
1127	30584142	30612283	30640431	30668586	30696747
1128	30865857	30894066	30922282	30950504	30978733
1129	31148950	31176526	31204810	31233100	31261396
1130	31431320	31459664	31488015	31516373	31544738
1131	31715068	31743480	31771899	31800325	31828757
1132	31999495	32027975	32056462	32084956	32113456
1133	32284602	32313150	32341705	32370267	32398835
1134	32570389	32599005	32627628	32656258	32684894
1135	32856856	32885541	32914232	32942929	32971634
1136	33144005	33172758	33201517	33230283	33259056
1137	33431836	33460657	33489484	33518318	33547159
1138	33720349	33749238	33778134	33807036	33835946
1139	34009545	34038503	34067467	34096438	34125415
1140	34299426	34328451	34357484	34386523	34415569
1141	34589990	34619084	34648185	34677293	34706407
1142	34881239	34910402	34939571	34968747	34997931
1143	35173174	35202405	35231643	35260888	35290140
1144	35465795	35495094	35524401	35553715	35583035
1145	35759102	35788471	35817846	35847228	35876618
1146	36053097	36082534	36111978	36141430	36170887
1147	36347780	36377286	36406799	36436319	36465846
1148	36643151	36672726	36702308	36731897	36761492
1149	36939211	36968855	36998506	37028164	37057828
1150	37235961	37265674	37295394	37325121	37354855
1151	37533402	37563184	37592973	37622768	37652571
1152	37831533	37861384	37891242	37921107	37950979
1153	38130356	38160276	38190203	38220137	38250078
1154	38429870	38459860	38489856	38519860	38549870

TABLE V.

OF

PRIME NUMBERS,

from 1 to 10000.

1	281	659	1069	1511	1987	2423	2903	3413	3907
2	283	661	1087	1523	1993	2437	2909	3433	3911
3	293	673	1091	1531	1997	2441	2917	3449	3917
5	307	677	1093	1543	1999	2447	2927	3457	3919
7	311	683	1097	1549	2003	2459	2939	3461	3923
11	313	691	1103	1553	2011	2467	2953	3463	3929
13	317	701	1109	1559	2017	2473	2957	3467	3931
17	331	709	1117	1567	2027	2477	2963	3469	3943
19	337	719	1123	1571	2029	2503	2969	3491	3947
23	347	727	1129	1579	2039	2521	2971	3499	3967
29	349	733	1151	1583	2053	2531	2999	3511	3989
31	353	739	1153	1597	2063	2539	3001	3517	4001
37	359	743	1163	1601	2069	2543	3011	3527	4003
41	367	751	1171	1607	2081	2549	3019	3529	4007
43	373	757	1181	1609	2083	2551	3023	3533	4013
47	379	761	1187	1613	2087	2557	3037	3539	4019
53	383	769	1193	1619	2089	2579	3041	3541	4021
59	389	773	1201	1621	2099	2591	3049	3547	4027
61	397	787	1213	1627	2111	2593	3061	3557	4049
67	401	797	1217	1637	2113	2609	3067	3559	4051
71	409	809	1223	1657	2129	2617	3079	3571	4057
73	419	811	1229	1663	2131	2621	3083	3581	4073
79	421	821	1231	1667	2137	2633	3089	3585	4079
83	431	823	1237	1669	2141	2647	3109	3593	4091
89	433	827	1249	1693	2143	2657	3119	3607	4093
97	439	829	1259	1697	2153	2659	3121	3613	4099
101	443	839	1277	1699	2161	2663	3137	3617	4111
103	449	853	1279	1709	2179	2671	3163	3623	4127
107	457	857	1283	1721	2203	2677	3167	3631	4129
109	461	859	1289	1723	2207	2683	3169	3637	4133
113	463	863	1291	1733	2213	2687	3181	3643	4139
127	467	877	1297	1741	2221	2689	3187	3659	4153
131	479	881	1301	1747	2237	2693	3191	3671	4157
137	487	883	1303	1753	2239	2699	3203	3673	4159
139	491	887	1307	1759	2243	2707	3209	3677	4177
149	499	907	1319	1777	2251	2711	3217	3691	4201
151	503	911	1321	1783	2267	2713	3221	3697	4211
157	509	919	1327	1787	2269	2719	3229	3701	4217
163	521	929	1361	1789	2273	2729	3251	3709	4219
167	523	937	1367	1801	2281	2731	3253	3719	4229
173	541	941	1373	1811	2287	2741	3257	3727	4231
179	547	947	1381	1823	2293	2749	3259	3733	4241
181	557	953	1399	1831	2297	2753	3271	3739	4243
191	563	967	1409	1847	2309	2767	3299	3761	7253
193	569	971	1423	1861	2311	2777	3301	3767	4259
197	571	977	1427	1867	2333	2789	3307	3769	4261
199	577	983	1429	1871	2339	2791	3313	3779	4271
211	587	991	1433	1873	2341	2797	3319	3793	4273
223	593	997	1439	1877	2347	2801	3323	3797	4283
227	599	1009	1447	1879	2351	2803	3329	3803	4289
229	601	1013	1451	1889	2357	2819	3331	3821	4297
233	607	1019	1453	1901	2371	2833	3343	3823	4327
239	613	1021	1459	1907	2377	2837	3347	3833	4337
241	617	1031	1471	1913	2381	2843	3359	3847	4339
251	619	1033	1481	1931	2383	2851	3361	3851	4349
257	631	1039	1483	1933	2389	2857	3371	3853	4357
263	641	1049	1487	1949	2393	2861	3373	3863	4363
269	643	1051	1489	1951	2399	2879	3389	3877	4373
271	647	1061	1493	1973	2411	2887	3391	3881	4391
277	653	1063	1499	1979	2417	2897	3407	3889	4397

4409	4937	5443	5939	6473	6997	7561	8111	8677	9199
4421	4943	5449	5953	6481	7001	7573	8117	8681	9203
4423	4951	5471	5981	6491	7013	7577	8123	8689	9209
4441	4957	5477	5987	6521	7019	7583	8147	8693	9221
4447	4967	5479	6007	6529	7027	7589	8161	8699	9227
4451	4969	5483	6011	6547	7039	7591	8167	8707	9239
4457	4973	5501	6029	6551	7043	7603	8171	8713	9241
4463	4987	5503	6037	6553	7057	7607	8179	8719	9257
4481	4993	5507	6043	6563	7069	7621	8191	8731	9277
4483	4999	5519	6047	6569	7079	7639	8209	8737	9281
4493	5003	5521	6053	6571	7103	7643	8219	8741	9283
4507	5009	5527	6067	6577	7109	7649	8221	8747	9293
4513	5011	5531	6073	6581	7121	7669	8231	8753	9311
4517	5021	5557	6079	6599	7127	7673	8233	8761	9319
4519	5023	5563	6089	6607	7129	7681	8237	8779	9323
4523	5039	5569	6091	6619	7151	7687	8243	8783	9337
4547	5051	5573	6101	6637	7159	7691	8263	8803	9341
4549	5059	5581	6113	6653	7177	7699	8269	8807	9343
4561	5077	5591	6121	6659	7187	7703	8273	8819	9349
4567	5081	5623	6131	6661	7193	7717	8287	8821	9371
4583	5087	5639	6133	6673	7207	7723	8291	8831	9377
4591	5099	5641	6143	6679	7211	7727	8293	8837	9391
4597	5101	5647	6151	6689	7213	7741	8297	8839	9397
4603	5107	5651	6163	6691	7219	7753	8311	8849	9403
4621	5113	5653	6173	6701	7229	7757	8317	8861	9413
4637	5119	5657	6197	6703	7237	7759	8329	8863	9419
4639	5147	5659	6199	6709	7243	7789	8353	8867	9421
4643	5153	5669	6203	6719	7247	7793	8363	8887	9431
4649	5167	5683	6211	6733	7253	7817	8369	8893	9433
4651	5171	5689	6217	6737	7283	7823	8377	8923	9437
4657	5179	5693	6221	6761	7297	7829	8387	8929	9439
4663	5189	5701	6229	6763	7307	7841	8389	8933	9461
4673	5197	5711	6247	6779	7309	7853	8419	8941	9463
4679	5209	5717	6257	6781	7321	7867	8423	8951	9467
4691	5227	5737	6263	6791	7331	7873	8429	8963	9473
4703	5231	5741	6269	6793	7333	7877	8431	8969	9479
4721	5233	5743	6271	6803	7349	7879	8443	8971	9491
4723	5237	5749	6277	6823	7351	7883	8447	8999	9497
4729	5261	5779	6287	6827	7369	7901	8461	9001	9511
4733	5273	5783	6299	6829	7393	7907	8467	9007	9521
4751	5279	5791	6301	6833	7411	7919	8501	9011	9533
4759	5281	5801	6311	6841	7417	7927	8513	9013	9539
4783	5297	5807	6317	6857	7433	7933	8521	9029	9547
4787	5303	5813	6323	6863	7451	7937	8527	9041	9551
4789	5309	5821	6329	6869	7457	7949	8537	9043	9587
4793	5323	5827	6337	6871	7459	7951	8539	9049	9601
4799	5333	5839	6343	6883	7477	7963	8543	9059	9613
4801	5347	5843	6353	6899	7481	7993	8563	9067	9619
4813	5351	5849	6359	6907	7487	8009	8573	9091	9623
4817	5381	5851	6361	6911	7489	8011	8581	9103	9629
4831	5387	5857	6367	6917	7499	8017	8597	9109	9631
4861	5393	5861	6373	6947	7507	8039	8599	9127	9643
4871	5399	5867	6379	6949	7517	8053	8609	9133	9649
4877	5407	5869	6389	6959	7523	8059	8623	9137	9661
4889	5413	5879	6397	6961	7529	8069	8627	9151	9677
4903	5417	5881	6421	6967	7537	8081	8629	9157	9679
4909	5419	5897	6427	6971	7541	8087	8641	9161	9689
4919	5431	5903	6449	6977	7547	8089	8647	9173	9697
4931	5437	5923	6451	6983	7549	8093	8663	9181	9719
4933	5441	5927	6469	6991	7559	8101	8669	9187	9721

9733	10271	10859	11443	12011	12553	13109	13697	14323	14851
9739	10273	10861	11447	12037	12569	13121	13709	14327	14867
9743	10289	10867	11467	12041	12577	13127	13711	14341	14869
9749	10301	10883	11471	12043	12583	13147	13721	14347	14879
9767	10303	10889	11483	12049	12589	13151	13729	14369	14887
9769	10313	10891	11489	12071	12601	13159	13729	14387	14891
9781	10321	10903	11491	12073	12611	13163	13751	14389	14897
9787	10331	10909	11497	12097	12613	13171	13757	14401	14923
9791	10333	10937	11503	12101	12619	13177	13759	14407	14929
9803	10337	10939	11519	12107	12637	13183	13763	14411	14939
9811	10343	10949	11527	12109	12641	13187	13781	14419	14947
9817	10357	10957	11549	12113	12647	13217	13789	14423	14951
9829	10369	10973	11551	12119	12653	13219	13799	14431	14957
9833	10391	10979	11579	12143	12659	13229	13807	14437	14969
9839	10399	10987	11587	12149	12671	13241	13829	14447	14983
9851	10427	10993	11593	12157	12689	13249	13831	14449	15013
9857	10429	11003	11597	12161	12697	13259	13841	14461	15017
9859	10433	11027	11617	12163	12703	13267	13859	14479	15031
9871	10453	11047	11621	12197	12713	13291	13873	14489	15053
9883	10457	11057	11633	12203	12721	13297	13877	14503	15061
9887	10459	11059	11657	12211	12739	13309	13879	14519	15073
9901	10463	11069	11677	12227	12743	13313	13883	14533	15077
9907	10477	11071	11681	12239	12757	13327	13901	14537	15083
9923	10487	11083	11689	12241	12763	13331	13903	14543	15091
9929	10499	11087	11699	12251	12781	13337	13907	14549	15101
9931	10501	11093	11701	12253	12791	13339	13913	14551	15107
9941	10513	11113	11717	12263	12799	13367	13921	14557	15121
9949	10529	11117	11719	12269	12809	13381	13931	14561	15131
9967	10531	11119	11731	12277	12821	13397	13933	14563	15137
9973	10559	11131	11743	12281	12823	13399	13963	14591	15139
10007	10567	11149	11777	12289	12829	13411	13967	14593	15149
10009	10589	11159	11779	12301	12841	13417	13997	14621	15161
10037	10597	11161	11783	12323	12853	13421	13999	14627	15173
10039	10601	11171	11789	12329	12889	13441	14009	14629	15187
10061	10607	11173	11801	12343	12893	13451	14011	14633	15193
10067	10613	11177	11807	12347	12899	13457	14029	14639	15199
10069	10627	11197	11813	12373	12907	13463	14033	14653	15217
10079	10631	11213	11821	12377	12911	13469	14051	14657	15227
10091	10639	11239	11827	12379	12917	13477	14057	14669	15233
10093	10651	11243	11831	12391	12919	13487	14071	14683	15241
10099	10657	11251	11833	12401	12923	13499	14081	14699	15259
10103	10663	11257	11839	12409	12941	13513	14083	14713	15263
10111	10667	11261	11863	12413	12953	13523	14087	14717	15269
10133	10687	11273	11867	12421	12959	13537	14107	14723	15271
10139	10691	11279	11887	12433	12967	13553	14143	14731	15277
10141	10709	11287	11897	12437	12973	13567	14149	14737	15287
10151	10711	11299	11903	12451	12979	13577	14153	14741	15289
10159	10723	11311	11909	12457	12983	13591	14159	14747	15299
10163	10729	11317	11923	12473	13001	13597	14173	14753	15307
10169	10733	11321	11927	12479	13003	13613	14177	14759	15313
10177	10739	11329	11933	12487	13007	13619	14197	14767	15319
10181	10753	11351	11939	12491	13009	13627	14207	14771	15329
10193	10771	11353	11941	12497	13033	13633	14221	14779	15331
10211	10781	11369	11953	12503	13037	13649	14243	14783	15349
10223	10789	11383	11959	12511	13043	13669	14249	14797	15359
10243	10799	11393	11969	12517	13049	13679	14251	14813	15361
10247	10831	11399	11971	12527	13063	13681	14281	14821	15373
10253	10837	11411	11981	12539	13093	13687	14293	14827	15377
10259	10847	11423	11987	12541	13099	13691	14303	14831	15383
10267	10853	11437	12007	12547	13103	13693	14321	14843	15391

15401	15971	16603	17191	17783	18313	19009	19571	20149	20771
15413	15973	16607	17203	17789	18329	19013	19577	20161	20773
15427	15991	16619	17207	17791	18341	19031	19583	20173	20789
15439	16001	16631	17209	17807	18353	19037	19597	20177	20807
15443	16007	16633	17231	17827	18367	19051	19603	20183	20809
15451	16033	16649	17239	17837	18371	19069	19609	20201	20849
15461	16057	16651	17257	17839	18379	19073	19661	20219	20857
15467	16061	16657	17291	17851	18397	19079	19681	20231	20873
15473	16063	16661	17293	17863	18401	19081	19687	20233	20879
15493	16067	16673	17299	17881	18413	19087	19697	20249	20887
15497	16069	16691	17317	17891	18427	19121	19699	20261	20897
15511	16073	16693	17321	17903	18433	19139	19709	20269	20899
15527	16087	16699	17327	17909	18439	19141	19717	20287	20903
15541	16091	16703	17333	17911	18443	19157	19727	20297	20921
15551	16097	16729	17341	17921	18451	19163	19739	20323	20929
15559	16103	16741	17351	17923	18457	19181	19751	20327	20939
15569	16111	16747	17359	17929	18461	19183	19753	20333	20947
15581	16127	16759	17377	17939	18481	19207	19759	20341	20959
15583	16139	16763	17383	17957	18493	19211	19763	20347	20963
15601	16141	16787	17387	17959	18503	19213	19777	20353	20981
15607	16183	16811	17389	17971	18517	19219	19793	20357	20983
15619	16187	16823	17393	17977	18521	19231	19801	20359	21001
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72869	73553	74203	74861	75541	76231	76919	77563	78229	78929
72871	73561	74209	74869	75553	76243	76943	77569	78233	78941
72883	73571	74219	74873	75557	76249	76949	77573	78241	78977
72889	73583	74231	74887	75571	76253	76961	77587	78259	78979
72893	73589	74257	74891	75577	76259	76963	77591	78277	78989
72901	73597	74279	74897	75583	76261	76991	77611	78283	79031
72907	73607	74287	74903	75611	76283	77003	77617	78301	79039
72911	73609	74293	74923	75617	76289	77017	77621	78307	79043
72923	73613	74297	74939	75619	76303	77023	77641	78311	79063
72931	73637	74311	74933	75629	76333	77029	77647	78317	79087
72937	73643	74317	74941	75641	76343	77041	77659	78341	79103
72949	73651	74323	74959	75653	76367	77047	77681	78347	79111
72953	73673	74353	75011	75659	76369	77069	77687	78367	79133
72959	73679	74357	75013	75679	76379	77081	77689	78401	79139
72973	73681	74363	75017	75683	76387	77093	77699	78427	79147
72977	73693	74377	75029	75689	76403	77101	77711	78437	79151
72997	73699	74381	75037	75703	76421	77137	77713	78439	79153
73009	73709	74383	75041	75707	76423	77141	77719	78467	79159
73013	73721	74411	75079	75709	76441	77153	77723	78479	79181
73019	73727	74413	75083	75721	76463	77167	77731	78487	79187
73037	73751	74419	75109	75731	76471	77171	77743	78497	79193
73039	73757	74441	75133	75743	76481	77191	77747	78509	79201
73043	73771	74449	75149	75767	76487	77201	77761	78511	79229
73061	73783	74453	75161	75773	76493	77213	77773	78517	79231
73063	73819	74471	75167	75781	76507	77237	77783	78539	79241
73079	73823	74489	75169	75787	76511	77239	77797	78541	79259
73091	73847	74507	75181	75793	76519	77243	77801	78553	79273
73121	73849	74509	75193	75797	76537	77249	77813	78569	79279
73127	73859	74521	75209	75821	76541	77261	77839	78571	79283
73133	73867	74527	75211	75833	76543	77263	77849	78577	79301
73141	73877	74531	75217	75853	76561	77267	77863	78583	79309
73181	73883	74551	75223	75869	76579	77269	77867	78593	79319
73189	73897	74561	75227	75883	76597	77279	77893	78607	79333
73237	73907	74567	75239	75913	76603	77291	77899	78623	79337
73243	73939	74573	75253	75931	76607	77317	77929	78643	79349
73259	73943	74587	75269	75937	76631	77323	77933	78649	79357
73277	73951	74597	75277	75941	76649	77339	77951	78653	79367
73291	73961	74609	75289	75967	76651	77347	77969	78691	79379
73303	73973	74611	75307	75979	76667	77351	77977	78697	79393
73309	73999	74623	75323	75983	76673	77359	77983	78707	79397
73327	74017	74653	75329	75989	76679	77369	77999	78713	79399
73331	74021	74687	75337	75991	76697	77377	78007	78721	79411
73351	74027	74699	75347	75997	76717	77383	78017	78737	79423
73361	74047	74707	75353	76001	76753	77417	78031	78779	79427
73363	74051	74713	75367	76003	76753	77419	78041	78781	79433
73369	74071	74717	75377	76031	76757	77431	78049	78787	79451
73379	74077	74719	75389	76039	76771	77447	78059	78791	79481
73387	74093	74729	75391	76079	76777	77471	78079	78797	79495
73417	74099	74731	15401	76081	76781	77477	78101	78803	79531
73421	74101	74747	75403	76091	76801	77479	78121	78809	79537
73433	74131	74759	75407	76099	76819	77489	78137	78823	79549
73453	74143	74761	75431	76103	76829	77491	78139	78839	79559
73459	74149	74771	75437	76123	76831	77509	78157	78853	79561
73471	74159	74779	75479	76129	76837	77513	78163	78857	79579
73477	74161	74797	75503	76147	76847	77521	78167	78877	79589
73483	74167	74821	75511	76157	76871	77527	78173	78887	79601
73517	74177	74827	75521	76159	76873	77543	78179	78889	79609
73523	74189	74831	75527	76163	76883	77549	78191	78893	79613

79621	80263	80923	81569	82219	82891	83609	84319	85027	85691
79627	80273	80929	81611	82223	82903	83617	84347	85037	85703
79631	80279	80933	81619	82231	82913	83621	84349	85049	85711
79633	80287	80953	81629	82237	82939	83639	84377	85061	85717
79657	80309	80963	81637	82241	82963	83641	84389	85081	85733
79669	80317	80989	81647	82261	82981	83653	84391	85087	85751
79687	80329	81001	81649	82267	82997	83663	84401	85091	85781
79691	80341	81013	81667	82279	83003	83689	84407	85093	85793
79693	80347	81017	81671	82301	83009	83701	84421	85103	85817
79697	80363	81019	81677	82307	83023	83717	84431	85109	85819
79699	80369	81023	81689	82339	83047	83719	84437	85121	85829
79757	80387	81031	81701	82349	83059	83737	84443	85133	85831
79769	80407	81041	81703	82351	83063	83761	84449	85147	85837
79777	80429	81043	81707	82361	83071	83773	84457	85159	85843
79801	80447	81047	81727	82373	83077	83777	84463	85193	85847
79811	80449	81049	81737	82387	83089	83791	84467	85199	85853
79813	80471	81071	81749	82393	83093	83813	84481	85201	85889
79817	80473	81077	81761	82421	83101	83833	84499	85213	85903
79823	80489	81083	81769	82457	83117	83843	84503	85223	85909
79829	80491	81097	81773	82463	83137	83857	84509	85229	85931
79841	80513	81101	81799	82469	83177	83869	84521	85237	85933
79843	80527	81119	81817	82471	83203	83873	84523	85243	85991
79847	80537	81131	81839	82483	83207	83891	84533	85247	85999
79861	80557	81157	81847	82487	83219	83903	84551	85259	86011
79867	80567	81163	81853	82493	83221	83911	84559	85297	86017
79873	80599	81173	81869	82499	83227	83921	84589	85303	86027
79889	80603	81181	81883	82507	83231	83933	84629	85313	86029
79901	80611	81197	81899	82529	83233	83939	84631	85331	86069
79903	80621	81199	81901	82531	83243	83969	84649	85333	86077
79907	80627	81203	81919	82549	83257	83983	84653	85361	86083
79939	80629	81223	81929	82559	83267	83987	84659	85363	86111
79943	80651	81233	81931	82561	83269	84011	84673	85369	86113
79967	80657	81239	81937	82567	83273	84017	84691	85381	86117
79973	80669	81281	81943	82571	83299	84047	84697	85411	86131
79979	80671	81283	81953	82591	83311	84053	84701	85427	86137
79987	80677	81293	81967	82601	83339	84059	84713	85429	86143
79997	80681	81299	81971	82609	83341	84061	84719	85439	86161
79999	80683	81307	81973	82613	83357	84067	84731	85447	86171
80021	80687	81331	82003	82619	83388	84089	84737	85451	86179
80039	80701	81343	82007	82633	83389	84121	84751	85453	86183
80051	80713	81349	82009	82651	83399	84127	84761	85469	86197
80071	80737	81353	82013	82657	83401	84131	84787	85487	86201
80077	80747	81359	82021	82699	83407	84137	84793	85513	86209
80107	80749	81371	82031	82721	83417	84143	84809	85517	86239
80111	80761	81373	82037	82723	83423	84163	84811	85523	86243
80141	80777	81401	82039	82727	83431	84179	84827	85531	86249
80147	80779	81409	82051	82729	83437	84181	84857	85549	86257
80149	80783	81421	82067	82757	83443	84191	84859	85571	86263
80153	80789	81439	82073	82759	83449	84199	84869	85577	86269
80167	80803	81457	82129	82763	83459	84211	84871	85597	86287
80173	80809	81463	82139	82781	83471	84221	84913	85601	86291
80177	80819	81509	82141	82787	83477	84223	84919	85607	86293
80191	80831	81517	82153	82793	83497	84229	84947	85619	86297
80207	80833	81527	82163	82799	83537	84239	84961	85621	86311
80209	80849	81533	82171	82811	83557	84247	84967	85627	86323
80221	80863	81547	82183	82813	83561	84263	84977	85639	86341
80231	80897	81551	82189	82837	83563	84299	84979	85643	86351
80233	80909	81553	82193	82847	83579	84307	84991	85661	86353
80239	80911	81559	82207	82883	83591	84313	85009	85667	86357
80251	80917	81563	82217	82889	83597	84317	85091	85669	86369

86371	87119	87721	88547	89209	89849	90481	91193	91939	92567
86381	87121	87739	88589	89213	89867	90499	91199	91943	92569
86389	87133	87743	88591	89227	89891	90511	91229	91951	92581
86399	87149	87751	88607	89231	89897	90523	91237	91957	92593
86413	87151	87767	88609	89237	89899	90527	91243	91961	92623
86423	87179	87793	88643	89261	89909	90529	91249	91967	92627
86441	87181	87797	88651	89269	89917	90533	91253	91969	92639
86453	87187	87803	88657	89273	89923	90547	91283	91997	92641
86461	87211	87811	88661	89293	89939	90583	91291	92003	92647
86467	87221	87833	88663	89303	89959	90599	91297	92009	92657
86477	87223	87853	88667	89317	89963	90617	91303	92033	92669
86491	87251	87869	88681	89329	89977	90619	91309	92041	92671
86501	87253	87877	88721	89363	89983	90631	91331	92051	92681
86509	87257	87881	88729	89371	89989	90641	91367	92077	92683
86531	87277	87887	88741	89381	90001	90647	91369	92083	92693
86533	87281	87911	88747	89387	90007	90659	91373	92107	92699
86539	87293	87917	88771	89393	90011	90677	91381	92111	92707
86561	87299	87931	88789	89399	90017	90679	91387	92119	92717
86573	87313	87943	88793	89413	90019	90697	91393	92143	92723
86579	87317	87959	88799	89417	90023	90703	91397	92153	92737
86587	87323	87961	88801	89431	90031	90709	91411	92173	92753
86599	87337	87973	88807	89443	90053	90731	91423	92177	92761
86627	87359	87977	88811	89449	90059	90749	91433	92179	92767
86629	87383	87991	88813	89459	90067	90787	91453	92189	92779
86677	87403	88001	88817	89477	90071	90793	91457	92203	92789
86689	87407	88003	88819	89491	90073	90803	91459	92219	92791
86693	87421	88007	88843	89501	90089	90821	91463	92221	92801
86711	87427	88019	88853	89513	90107	90823	91493	92227	92809
86719	87433	88037	88861	89519	90121	90833	91499	92233	92821
86729	87443	88069	88867	89521	90127	90841	91513	92237	92831
86743	87473	88079	88873	89527	90149	90847	91529	92243	92849
86753	87481	88093	88883	89533	90163	90863	91541	92251	92857
86767	87491	88117	88897	89561	90173	90887	91571	92269	92861
86771	87509	88129	88903	89563	90187	90901	91573	92297	92863
86783	87511	88169	88919	89567	90191	90907	91577	92311	92867
86813	87517	88177	88937	89591	90197	90911	91583	92317	92893
86837	87523	88211	88951	89597	90199	90917	91591	92333	92899
86843	87539	88223	88969	89599	90203	90931	91621	92347	92921
86851	87541	88237	88993	89603	90217	90947	91631	92353	92927
86857	87547	88241	88997	89611	90227	90971	81639	92357	92941
86861	87553	88259	89003	89627	90239	90977	91673	92363	92951
86869	87557	88261	89009	89633	90247	90989	91691	92369	92957
86923	87559	88289	89017	89653	90263	90997	91703	92377	92959
86927	87583	88301	89021	89657	90271	91009	91711	92381	92987
86929	87587	88321	89041	89659	90281	91019	91733	92383	92993
86939	87589	88327	89051	89669	90289	91033	91753	92387	93001
86951	87613	88337	89057	89671	90313	91079	91757	92399	93047
86959	87623	88339	89069	89681	90353	91081	91771	92401	93053
86969	87629	88379	89071	89689	90359	91097	91781	92413	93059
86981	87631	88397	89083	89753	90371	91099	91801	92419	93077
86993	87641	88411	89087	89759	90373	91121	91807	92431	93083
87011	87643	88423	89101	89767	90379	91127	91811	92459	93089
87013	87649	88427	89107	89779	90397	91129	91813	92461	93097
87037	87671	88463	89113	89783	90401	91139	91823	92467	93103
87041	87679	88469	89119	89797	90403	91141	91837	92479	93113
87049	87683	88471	89123	89809	90407	91151	91841	92489	93131
87071	87691	88493	89137	89819	90437	91153	91867	92503	93133
87083	87697	88499	89153	89821	90439	91159	91873	92507	93139
87103	87701	88513	89189	89833	90469	91163	91909	92551	93151
87107	87719	88523	89203	89839	90473	91183	91921	92557	93169

93179	93911	94559	95231	95873	96581	97303	98011	98737	99397
93187	93913	94561	95233	95881	96587	97327	98017	98773	99401
93199	93923	94573	95239	95891	96589	97367	98041	98779	99409
93229	93937	94583	95257	95911	96601	97369	98047	98801	99431
93239	93941	94597	95261	95917	96643	97373	98057	98807	99439
93241	93949	94603	95267	95923	96661	97379	98081	98809	99469
93251	93967	94613	95273	95929	96667	97381	98101	98837	99487
93253	93971	94621	95279	95947	96671	97387	98123	98849	99497
93257	93979	94649	95287	95957	96697	97397	98129	98867	99523
93263	93983	94651	95311	95959	96703	97423	98143	98869	99527
93281	93997	94687	95317	95971	96731	97429	98179	98873	99529
93283	94007	94693	95327	95987	96737	97441	98207	98887	99551
93287	94009	94709	95339	95989	96739	97453	98213	98893	99559
93307	94033	94723	95369	96001	96749	97459	98221	98897	99563
93319	94049	94727	95383	96013	96757	97463	98227	98899	99571
93323	94057	94747	95393	96017	96763	97499	98251	98909	99577
93329	94063	94771	95401	96043	96769	97501	98257	98911	99581
93337	94079	94777	95413	96053	96779	97511	98269	98927	99607
93371	94099	94781	95419	96059	96787	97523	98297	98929	99611
93377	94109	94789	95429	96079	96797	97547	98299	98939	99623
93383	94111	94793	95441	96097	96799	97549	98317	98947	99643
93407	94117	94811	95443	96137	96821	97553	98321	98953	99661
93419	94121	94819	95461	96149	96823	97561	98323	98963	99667
93427	94151	94823	95467	96157	96827	97571	98327	98981	99679
93463	94153	94837	95471	96167	96847	97577	98347	98993	99689
93479	94169	94841	95479	96179	96851	97579	98369	98999	99707
93481	94201	94847	95483	96181	96857	97583	98377	99013	99709
93487	94207	94849	95507	96199	96893	97607	98387	99017	99713
93491	94219	94873	95527	96211	96907	97609	98389	99023	99719
93493	94229	94889	95531	96221	96911	97613	98407	99041	99721
93497	94253	94903	95539	96223	96931	97649	98411	99053	99733
93503	94261	94907	95549	96233	96953	97651	98419	99079	99761
93523	94273	94933	95561	96259	96959	97673	98429	99083	99767
93529	94291	94949	95569	96263	96973	97687	98443	99089	99787
93553	94307	94951	95581	96269	96979	97711	98453	99103	99793
93557	94309	94961	95597	96281	96989	97729	98459	99109	99809
93559	94321	94993	95603	96289	96997	97771	98467	99119	99817
93563	94327	94999	95617	96293	97001	97777	98473	99131	99823
93581	94331	95003	95621	96323	97003	97787	98479	99133	99829
93601	94343	95009	95629	96329	97007	97789	98491	99137	99833
93607	94349	95021	95633	96331	97021	97813	98507	99139	99839
93629	94351	95027	95651	96337	97039	97829	98519	99149	99859
93637	94379	95063	95701	96353	97073	97841	98533	99173	99871
93683	94397	95071	95707	96377	97081	97843	98543	99181	99877
93701	94399	95083	95713	96401	97103	97847	98561	99191	99881
93703	94421	95087	95717	96419	97117	97849	98563	99223	99901
93719	94427	95089	95723	96431	97127	97859	98573	99233	99907
93739	94433	95093	95731	96443	97151	97861	98597	99241	99923
93761	94439	95101	95737	96451	97157	97871	98621	99251	99929
93763	94441	95107	95747	96457	97159	97879	98627	99257	99961
93787	94447	95111	95773	96461	97169	97883	98639	99259	99971
93809	94463	95131	95783	96469	97171	97919	98641	99277	99989
93811	94477	95143	95789	96479	97177	97927	98663	99289	99991
93827	94483	95153	95791	96487	97187	97931	98669	99317	100003
93851	94513	95177	95801	96493	97213	97943	98689	99347	100019
93871	94529	95189	95803	96497	97231	97961	98711	99349	100043
93887	94531	95191	95813	96517	97241	97967	98713	99367	100049
93889	94541	95203	95819	96527	97259	97973	98717	99371	100057
93893	94543	95213	95857	96553	97283	97987	98729	99377	100069
93901	94547	95219	95869	96557	97301	98009	98731	99391	100103

TABLE VI.

OF

HYPERBOLIC LOGARITHMS FOR ALL NUMBERS,

from 1000 to 10000.

N	0	1	2	3	4
0	inf. neg.	0·00000000	0·69314718	1·09861229	1·38629436
1	2·30258509	2·39789527	2·48490665	2·56494936	2·63905733
2	2·99573227	3·04452244	3·09104245	3·13549422	3·17805383
3	3·40119738	3·43398720	3·46573590	3·49650756	3·52636052
4	3·68887945	3·71357207	3·73766962	3·76120012	3·78418963
5	3·91202301	3·93182563	3·95124372	3·97029191	3·98898405
6	4·09434456	4·11087386	4·12713439	4·14313473	4·15888308
7	4·24849524	4·26267988	4·27666612	4·29045944	4·30406509
8	4·38202663	4·39444915	4·40671925	4·41884061	4·43081680
9	4·49980967	4·51085951	4·52178858	4·53259949	4·54329478
10	4·60517019	4·61512052	4·62497281	4·63472899	4·64439090
11	4·70048037	4·70953020	4·71849887	4·72738782	4·73619845
12	4·78749174	4·79579055	4·80402104	4·81218436	4·82028157
13	4·86753445	4·87519732	4·88280192	4·89034913	4·89783980
14	4·94164242	4·94875989	4·95582706	4·96284463	4·96981330
15	5·01063529	5·01727984	5·02388052	5·03043792	5·03695260
16	5·07517382	5·08140436	5·08759634	5·09375020	5·09986643
17	5·13579844	5·14166356	5·14749448	5·15329159	5·15905530
18	5·19295685	5·19849703	5·20400669	5·20948615	5·21493576
19	5·24702407	5·25227343	5·25749537	5·26269019	5·26785816
20	5·29831737	5·30330491	5·30826770	5·31320598	5·31811999
21	5·34710753	5·35185813	5·35658627	5·36129217	5·36597602
22	5·39362755	5·39816270	5·40267738	5·40717177	5·41164605
23	5·43807931	5·44241771	5·44673737	5·45103845	5·45532112
24	5·48063892	5·48479693	5·48893773	5·49306144	5·49716823
25	5·52146092	5·52545294	5·52942909	5·53338949	5·53733427
26	5·56068163	5·56452041	5·56834450	5·57215403	5·57594910
27	5·59842196	5·60211882	5·60580207	5·60947180	5·61312811
28	5·63478960	5·63835467	5·64190707	5·64544690	5·64897424
29	5·66988092	5·67332327	5·67675380	5·68017261	5·68357977
30	5·70378247	5·70711026	5·71042709	5·71373281	5·71702770
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32	5·76832100	5·77144112	5·77455155	5·77765232	5·78074352
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45	6·10924758	6·11146734	6·11368218	6·11589213	6·11809720
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47	6·15273269	6·15485809	6·15697899	6·15909539	6·16120732
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67	6·50727771	6·50876914	6·51025834	6·51174533	6·51323011
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75	6·62007321	6·62140565	6·62273632	6·62406523	6·62539237
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90	6·80239476	6·80350526	6·80461452	6·80572255	6·80682936
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97	6·87729607	6·87832647	6·87935580	6·88038408	6·88141130
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128	7·15461536	7·15539630	7·15617664	7·15695636	7·15773548
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130	7·17011954	7·17088848	7·17165682	7·17242458	7·17319174
131	7·17778242	7·17854548	7·17930797	7·18006987	7·18083120
132	7·18538702	7·18614430	7·18690102	7·18765716	7·18841274
133	7·19293422	7·19368582	7·19443685	7·19518732	7·19593723
134	7·20042489	7·20117088	7·20191632	7·20266120	7·20340552
135	7·20785987	7·20860034	7·20934026	7·21007963	7·21081845
136	7·21523998	7·21597500	7·21670949	7·21744143	7·21817684
137	7·22256602	7·22329568	7·22402481	7·22475341	7·22548147
138	7·22983878	7·23056315	7·23128700	7·23201033	7·23273314
139	7·23705903	7·23777819	7·23849684	7·23921497	7·23993259
140	7·24422752	7·24494155	7·24565507	7·24636808	7·24708058
141	7·25134498	7·25205395	7·25276242	7·25347038	7·25417785
142	7·25841215	7·25911613	7·25981961	7·26052260	7·26122509
143	7·26542972	7·26612878	7·26682735	7·26752543	7·26822302
144	7·27239839	7·27309260	7·27378632	7·27447956	7·27517232
145	7·27931884	7·28000825	7·28069720	7·28138566	7·28207366
146	7·28619171	7·28687641	7·28756064	7·28824440	7·28892769
147	7·29301768	7·29369772	7·29437730	7·29505642	7·29573507
148	7·29979737	7·30047281	7·30114781	7·30182234	7·30249642
149	7·30653140	7·30720231	7·30787278	7·30854280	7·30921237

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102	6·93244789	6·93342303	6·93439721	6·93537045	6·93634274
103	6·94215671	6·94312242	6·94408721	6·94505106	6·94601399
104	6·95177216	6·95272864	6·95368421	6·95463886	6·95559261
105	6·96129605	6·96224346	6·96318999	6·96413561	6·96508035
106	6·97073008	6·97166860	6·97260625	6·97354302	6·97447891
107	6·98007594	6·98100574	6·98193468	6·98286275	6·98378997
108	6·98933527	6·99025650	6·99117689	6·99209643	6·99301512
109	6·99850964	6·99942247	7·00033446	7·00124562	7·00211595
110	7·00760061	7·00850518	7·00940893	7·01031187	7·01121399
111	7·01660968	7·01750614	7·01840180	7·01929665	7·02019071
112	7·02553831	7·02642681	7·02731451	7·02820143	7·02908756
113	7·03438793	7·03526860	7·03614849	7·03702761	7·03790596
114	7·04315992	7·04403290	7·04490512	7·04577658	7·04664728
115	7·05185562	7·05272105	7·05358573	7·05444966	7·05531284
116	7·06047637	7·06133437	7·06219163	7·06304816	7·06390396
117	7·06902343	7·06987413	7·07072411	7·07157336	7·07242190
118	7·07749805	7·07834158	7·07918439	7·08002650	7·08086790
119	7·08390146	7·08673793	7·08775371	7·08840878	7·08924316
120	7·09423485	7·09506438	7·09589322	7·09672138	7·09754885
121	7·10249936	7·10332206	7·10414409	7·10496545	7·10578613
122	7·11069612	7·11151212	7·11232744	7·11314211	7·11395611
123	7·11882625	7·11963564	7·12044437	7·12125245	7·12205988
124	7·12689081	7·12769370	7·12849595	7·12929755	7·13009851
125	7·13489085	7·13568735	7·13648321	7·13727844	7·13807303
126	7·14282740	7·14361760	7·14440718	7·14519613	7·14598447
127	7·15070146	7·15148546	7·15226886	7·15305163	7·15383380
128	7·15851400	7·15929190	7·16006921	7·16084591	7·16162200
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130	7·17395832	7·17472431	7·17548971	7·17625453	7·17701877
131	7·18159194	7·18235211	7·18311170	7·18387072	7·18414455
132	7·18916774	7·18992217	7·19067603	7·19142933	7·19218206
133	7·19668657	7·19743535	7·19818358	7·19893124	7·19967835
134	7·20414929	7·20489251	7·20563518	7·20637729	7·20711886
135	7·21155673	7·21229147	7·21303166	7·21376831	7·21450441
136	7·21890971	7·21964204	7·22037384	7·22110510	7·22183583
137	7·22620901	7·22693602	7·22766250	7·22838845	7·22911388
138	7·23345542	7·23417718	7·23489842	7·23562914	7·23633934
139	7·24064969	7·24136628	7·24208236	7·24279792	7·24351297
140	7·24779258	7·24850407	7·24921506	7·24992554	7·25063551
141	7·25488481	7·25559127	7·25629724	7·25700271	7·25770768
142	7·26192709	7·26262860	7·26332962	7·26403014	7·26473018
143	7·26892013	7·26961675	7·27031289	7·27100854	7·27170371
144	7·27586460	7·27655040	7·27724773	7·27793857	7·27862894
145	7·28276118	7·28344823	7·28413481	7·28482091	7·28550655
146	7·28961052	7·29029288	7·29197578	7·29165621	7·29233718
147	7·29641327	7·29709101	7·29776828	7·29844510	7·29912146
148	7·30317005	7·30384883	7·30451595	7·30518822	7·30586003
149	7·30988149	7·31055016	7·31121838	7·31188616	7·31255350

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151	7·31986493	7·32052696	7·32118856	7·32184971	7·32251043
152	7·32646561	7·32712529	7·32778034	7·32843735	7·32909374
153	7·33302301	7·33367640	7·33432985	7·33498188	7·33563398
154	7·33953770	7·34018684	7·34083555	7·34148385	7·34213173
155	7·34601021	7·34665516	7·34729970	7·34794382	7·34858753
156	7·35244110	7·35308192	7·35372233	7·35436232	7·35500190
157	7·35883090	7·35946764	7·36010397	7·36073990	7·36137543
158	7·36518013	7·36581284	7·36644515	7·36707706	7·36770857
159	7·37148930	7·37211803	7·37274637	7·37337431	7·37400186
160	7·37775891	7·37838371	7·37900813	7·37963215	7·38025579
161	7·38398946	7·38461038	7·38523092	7·38585108	7·38647085
162	7·39018143	7·39079852	7·39141525	7·39203157	7·39264752
163	7·39633529	7·39694860	7·39756154	7·39817409	7·39878628
164	7·40245152	7·40306109	7·40367029	7·40427912	7·40488758
165	7·40853057	7·40913644	7·40974195	7·41034710	7·41095188
166	7·41457288	7·41517511	7·41577698	7·41637848	7·41697962
167	7·42057891	7·42117753	7·42177579	7·42237370	7·42297125
168	7·42654907	7·42714413	7·42773884	7·42833319	7·42892719
169	7·43248381	7·43307585	7·43366654	7·43425738	7·43484788
170	7·43838353	7·43897159	7·43955931	7·44014668	7·44173371
171	7·44424965	7·44483327	7·44541756	7·44600150	7·44658510
172	7·45007957	7·45066080	7·45124168	7·45182224	7·45240245
173	7·45587669	7·45645456	7·45703209	7·45760929	7·45818616
174	7·46164039	7·46221494	7·46278916	7·46336305	7·46393760
175	7·46737107	7·46794233	7·46851327	7·46908388	7·46965417
176	7·47306909	7·47363711	7·47420481	7·47477218	7·47533924
177	7·47873483	7·47929964	7·47986413	7·48042831	7·48099216
178	7·48436864	7·48493028	7·48549161	7·48605262	7·48661331
179	7·48997090	7·49053940	7·49108759	7·49164547	7·49220304
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181	7·50108212	7·50163446	7·50218649	7·50273821	7·50328963
182	7·50659178	7·50714108	7·50779008	7·50823878	7·50878717
183	7·51207125	7·51261554	7·51316355	7·51370925	7·51425465
184	7·51752085	7·51806418	7·51860722	7·51914996	7·51969240
185	7·52294092	7·52348131	7·52402142	7·52456123	7·52510075
186	7·52833177	7·52886926	7·52940646	7·52994337	7·53048000
187	7·53369371	7·53422833	7·53476266	7·53529670	7·53583046
188	7·53902706	7·53955883	7·54009032	7·54062153	7·54115246
189	7·54432211	7·54486107	7·54538975	7·54591815	7·54644627
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191	7·55488852	7·55538194	7·55590509	7·55642797	7·55695057
192	7·56008047	7·56060116	7·56112159	7·56164175	7·56216163
193	7·56527528	7·56579398	7·56631101	7·56682946	7·56734768
194	7·57044325	7·57095858	7·57147365	7·57198845	7·57250299
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196	7·58069975	7·58120983	7·58171964	7·58222919	7·58273849
197	7·58578882	7·58629631	7·58680354	7·58731051	7·58781722
198	7·59085219	7·59135705	7·59186171	7·59236613	7·59287029
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152	7·32974968	7·33040521	7·33106031	7·33171497	7·33236921
153	7·33628566	7·33693691	7·33758774	7·33823815	7·33888813
154	7·34277919	7·34342623	7·34407285	7·34471905	7·34536484
155	7·34923083	7·34987870	7·35051617	7·35115893	7·35179987
156	7·35564110	7·35627988	7·35691824	7·35755620	7·35819375
157	7·36201055	7·36264527	7·36327959	7·36391350	7·36454701
158	7·36833969	7·36897040	7·36960072	7·37023064	7·37086017
159	7·37462902	7·37525576	7·37588215	7·37650813	7·37713371
160	7·38087904	7·38150189	7·38212437	7·38274645	7·38336815
161	7·38709024	7·38770934	7·38832786	7·38894610	7·38956395
162	7·39326309	7·39387829	7·39449311	7·39510755	7·39572161
163	7·39939808	7·40000952	7·40062058	7·40123126	7·40184158
164	7·40549586	7·40610338	7·40671772	7·40731771	7·40792432
165	7·41155628	7·41216043	7·41276402	7·41336734	7·41397029
166	7·41758040	7·41818082	7·41878088	7·41938058	7·41997992
167	7·42356844	7·42416528	7·42476176	7·42535789	7·42595366
168	7·42953084	7·43011414	7·43070708	7·43129968	7·43189192
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171	7·44716836	7·44775128	7·44833386	7·44891610	7·44949801
172	7·45298823	7·45356187	7·45414108	7·45471995	7·45529849
173	7·45876269	7·45933890	7·45991477	7·46049031	7·46106551
174	7·46450983	7·46508273	7·46565531	7·46622756	7·46679947
175	7·47022414	7·47079377	7·47136309	7·47193208	7·47250074
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177	7·48155570	7·48211892	7·48268183	7·48324442	7·48380669
178	7·48717369	7·48773376	7·48829352	7·48885296	7·48941208
179	7·49276030	7·49331725	7·49387389	7·49443022	7·49498623
180	7·49831587	7·49886973	7·49942329	7·49997654	7·50052949
181	7·50384075	7·50439156	7·50494207	7·50549227	7·50604218
182	7·50933527	7·50988306	7·51043056	7·51097775	7·51152465
183	7·51479976	7·51534457	7·51588909	7·51643330	7·51697722
184	7·52023456	7·52077642	7·52131798	7·52185925	7·52240023
185	7·52563998	7·52627891	7·52671756	7·52725592	7·52779399
186	7·53101633	7·53155238	7·53208814	7·53262362	7·53315881
187	7·53636394	7·53689713	7·53743004	7·53796266	7·53849500
188	7·54168310	7·54221346	7·54274355	7·54327335	7·54380287
189	7·54697412	7·54750168	7·54812897	7·54856598	7·54908271
190	7·55223729	7·55276208	7·55328661	7·55381085	7·55433482
191	7·55747290	7·55799496	7·55851674	7·55903826	7·55960950
192	7·56269125	7·56320059	7·56371967	7·56423848	7·56475701
193	7·56786861	7·56837927	7·56889566	7·56941179	7·56992766
194	7·57301726	7·57353126	7·57404501	7·57455848	7·57507170
195	7·57814467	7·57865685	7·57916797	7·57967882	7·58018942
196	7·58324752	7·58375630	7·58426482	7·58477308	7·58528108
197	7·58832883	7·58882988	7·58933582	7·58984151	7·59034695
198	7·59337419	7·59387781	7·59438124	7·59488439	7·59538728
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202	7·61085279	7·61134772	7·61184240	7·61233684	7·61283103
203	7·61579107	7·61628356	7·61677581	7·61726781	7·61775958
204	7·62070509	7·62119516	7·62168500	7·62217459	7·62266395
205	7·62559507	7·62608276	7·62657021	7·62705742	7·62754439
206	7·63046126	7·63094658	7·63143166	7·63191651	7·63240113
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210	7·64969262	7·65016870	7·65064455	7·65112018	7·65159557
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212	7·65917137	7·65964295	7·66011432	7·66058546	7·66105638
213	7·66387726	7·66434663	7·66481579	7·66528472	7·66575343
214	7·66856111	7·66902829	7·66949525	7·66996200	7·67042852
215	7·67322312	7·67368813	7·67415292	7·67461750	7·67508186
216	7·67786350	7·67832636	7·67878900	7·67925143	7·67971364
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226	7·72312009	7·72356247	7·72400466	7·72444665	7·72488844
227	7·72753511	7·72797554	7·72841578	7·72885582	7·72929567
228	7·73193072	7·73236922	7·73280753	7·73324564	7·73368357
229	7·73630710	7·73674368	7·73718008	7·73761628	7·73805230
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231	7·74500280	7·74543561	7·74586823	7·74630066	7·74673291
232	7·74932246	7·74975341	7·75018416	7·75061473	7·75104512
233	7·75362355	7·75405264	7·75448155	7·75491027	7·75533881
234	7·75790621	7·75833347	7·75876054	7·75918743	7·75961415
235	7·76217061	7·76259605	7·76302131	7·76344639	7·76387129
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237	7·77064523	7·77106709	7·77148876	7·77191025	7·77233157
238	7·77485577	7·77527585	7·77569575	7·77611548	7·77653503
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241	7·78738203	7·78779688	7·78821156	7·78862607	7·78904040
242	7·79152282	7·79193595	7·79234892	7·79276172	7·79317435
243	7·79564654	7·79605797	7·79646924	7·79688034	7·79729127
244	7·79975332	7·80016307	7·80057265	7·80098207	7·80139132
245	7·80384330	7·80425138	7·80465930	7·80506704	7·80547462
246	7·80791663	7·80832305	7·80872931	7·80913539	7·80951132
247	7·81197343	7·81237821	7·81278282	7·81318727	7·81359155
248	7·81601384	7·81641698	7·81681997	7·81722279	7·81762544
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202	7·61332498	7·61381868	7·61431215	7·61480557	7·61529834
203	7·61825110	7·61874238	7·61923342	7·61972421	7·62021477
204	7·62315307	7·62364195	7·62413059	7·62461899	7·62510715
205	7·62803113	7·62851763	7·62900389	7·62948992	7·62997571
206	7·63288551	7·63336965	7·63385356	7·63433724	7·63482068
207	7·63771643	7·63819824	7·63867982	7·63916117	7·63964229
208	7·64252413	7·64300364	7·64348291	7·64396195	7·64444076
209	7·64730883	7·64778605	7·64826303	7·64873979	7·64921631
210	7·65207075	7·65254569	7·65302041	7·65349491	7·65396918
211	7·65681009	7·65728279	7·65775527	7·65822753	7·65869956
212	7·66152708	7·66199756	7·66246782	7·66293785	7·66340766
213	7·66622193	7·66669020	7·66715826	7·66762609	7·66809371
214	7·67089483	7·67136092	7·67182680	7·67229246	7·67275790
215	7·67554600	7·67600993	7·67647365	7·67693715	7·67740043
216	7·68017564	7·68063743	7·68109900	7·68156036	7·68202151
217	7·68478394	7·68524361	7·68570306	7·68616230	7·68662133
218	7·68937111	7·68982867	7·69028602	7·69074316	7·69120010
219	7·69393733	7·69439280	7·69484807	7·69530313	7·69575799
220	7·69848278	7·69893620	7·69938941	7·69984241	7·70029520
221	7·70300768	7·70345905	7·70391021	7·70436117	7·70481192
222	7·70751219	7·70796153	7·70841067	7·70885960	7·70930833
223	7·71199650	7·71244383	7·71289096	7·71333789	7·71378462
224	7·71646079	7·71690613	7·71735127	7·71779621	7·71824095
225	7·72090525	7·72134861	7·72179178	7·72223474	7·72267751
226	7·72533003	7·72577144	7·72621265	7·72665366	7·72709448
227	7·72973533	7·73017479	7·73061407	7·73105314	7·73149203
228	7·73412130	7·73455884	7·73499619	7·73543335	7·73587032
229	7·73848812	7·73892376	7·73935920	7·73979446	7·74022952
230	7·74283595	7·74326970	7·74370325	7·74413663	7·74456981
231	7·74716496	7·74759684	7·74802852	7·74846002	7·74889133
232	7·75147531	7·75190533	7·75233516	7·75276481	7·75319427
233	7·75576716	7·75619534	7·75662333	7·75705114	7·75747877
234	7·76004068	7·76046703	7·76089320	7·76131918	7·76174498
235	7·76429600	7·76472054	7·76514490	7·76556908	7·76599308
236	7·76853330	7·76895604	7·76937861	7·76980100	7·77022320
237	7·77275271	7·77317368	7·77359447	7·77401508	7·77443552
238	7·77695440	7·77737360	7·77779263	7·77821147	7·77863015
239	7·78113851	7·78155596	7·78197323	7·78239034	7·78280726
240	7·78530518	7·78572090	7·78613644	7·78655181	7·78696700
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242	7·79358680	7·79399909	7·79441120	7·79482315	7·79523493
243	7·79770204	7·79811263	7·79852305	7·79893331	7·79934339
244	7·80180040	7·80220932	7·80261806	7·80302664	7·80343506
245	7·80588204	7·80628929	7·80669637	7·80710329	7·80751004
246	7·80994709	7·81035268	7·81075812	7·81116338	7·81156849
247	7·81399567	7·81439963	7·81480343	7·81520706	7·81561053
248	7·81802794	7·81843027	7·81883244	7·81923445	7·81963630
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252	7·83201418	7·83241093	7·83280752	7·83320394	7·83360022
253	7·83597458	7·83636976	7·83676478	7·83715965	7·83755436
254	7·83991936	7·84031298	7·84070645	7·84109977	7·84149292
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256	7·84776254	7·84815309	7·84854348	7·84893373	7·84932382
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258	7·85554468	7·85593220	7·85631957	7·85670679	7·85709386
259	7·85941315	7·85979918	7·86018506	7·86057079	7·86095636
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263	7·87473912	7·87511928	7·87549929	7·87587916	7·87625888
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266	7·88608140	7·88645727	7·88683300	7·88720859	7·88758403
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268	7·89357207	7·89394514	7·89431806	7·89469085	7·89506350
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271	7·90470391	7·90507285	7·90544165	7·90581031	7·90617884
272	7·90838716	7·90875474	7·90912218	7·90948950	7·90985667
273	7·91205689	7·91242312	7·91278922	7·91315518	7·91352102
274	7·91571320	7·91607810	7·91644286	7·91680749	7·91717198
275	7·91935619	7·91971976	7·92008320	7·92044650	7·92080968
276	7·92298596	7·92334821	7·92371033	7·92407232	7·92443418
277	7·92660260	7·92696354	7·92732436	7·92768505	7·92804560
278	7·93020621	7·93056565	7·93092557	7·93128476	7·93164402
279	7·93379687	7·93415523	7·93451346	7·93487156	7·93522954
280	7·93737469	7·93773178	7·93808873	7·93844555	7·93880225
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282	7·94449216	7·94484671	7·94520113	7·94555542	7·94590960
283	7·94805199	7·94838529	7·94873845	7·91909150	7·94944442
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289	7·96901178	7·96935774	7·96970358	7·97004930	7·97039491
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294	7·98616486	7·98650494	7·98684490	7·98718474	7·98752448
295	7·98956045	7·98989987	7·99023819	7·99057638	7·99091546
296	7·99294455	7·99328252	7·99361999	7·99395755	7·99429499
297	7·99631723	7·99665388	7·99699041	7·99732682	7·99766313
298	7·99967858	8·00001409	8·00034949	8·00068478	8·00101996
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258	7·85748079	7·85786756	7·85825418	7·85864066	7·85902698
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260	7·86518795	7·86557176	7·86595541	7·86633892	7·86672229
261	7·86901958	7·86940171	7·86978390	7·87016595	7·87054784
262	7·87283617	7·87321705	7·87359779	7·87397838	7·87435882
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268	7·89543600	7·89580838	7·89618061	7·89655270	7·89692466
269	7·89915348	7·89952447	7·89989532	7·90026604	7·90063661
270	7·90288719	7·90325681	7·90359629	7·90396563	7·90433484
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274	7·91753685	7·91790059	7·91826469	7·91862865	7·91899249
275	7·92117272	7·92153563	7·92189841	7·92226106	7·92262357
276	7·92479591	7·92515751	7·92551898	7·92588032	7·92624152
277	7·92840603	7·92876632	7·92912649	7·92948652	7·92984643
278	7·93200915	7·93236215	7·93272102	7·93307977	7·93343839
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281	7·94271754	7·94307272	7·94342776	7·94378269	7·94413749
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283	7·94979782	7·95014989	7·95050243	7·95085486	7·95120716
284	7·95331805	7·95366978	7·95402108	7·95437227	7·95472333
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296	7·99460931	7·99496952	7·99530961	7·99564360	7·99598047
297	7·99799832	7·99833589	7·99867136	7·99900721	7·99934295
298	8·00135508	8·00168908	8·00202482	8·00236956	8·00269416
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305	8·02289687	8·02322469	8·02355239	8·02387999	8·02420748
306	8·02617019	8·02649694	8·02682357	8·02715010	8·02747653
307	8·02943284	8·02975852	8·03008409	8·03040956	8·03073492
308	8·03268488	8·03300949	8·03333401	8·03365843	8·03398273
309	8·03592636	8·03624994	8·03657340	8·03689677	8·03722003
310	8·03915739	8·03947992	8·03980234	8·04012466	8·04044688
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315	8·05515773	8·05547514	8·05579245	8·05610965	8·05642676
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327	8·09254526	8·09285103	8·09315670	8·09346227	8·09376775
328	8·09559870	8·09590353	8·09620827	8·09651292	8·09681747
329	8·09864284	8·09894675	8·09925056	8·09955428	8·09985791
330	8·10167775	8·10198073	8·10228362	8·10258643	8·10288913
331	8·10470347	8·10500554	8·10530752	8·10560940	8·10591119
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333	8·11072758	8·11102784	8·11132800	8·11162808	8·11192806
334	8·11372609	8·11402544	8·11432471	8·11462389	8·11492297
335	8·11671562	8·11701409	8·11731246	8·11761075	8·11790894
336	8·11969625	8·11999383	8·12029131	8·12058871	8·12088602
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342	8·13739583	8·13768818	8·13798045	8·13827264	8·13856474
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307	8·03106017	8·03138533	8·03171038	8·03203531	8·03236015
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309	8·03754318	8·03786623	8·03818918	8·03851202	8·03883475
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311	8·04398443	8·04430540	8·04462627	8·04494705	8·04526772
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314	8·05356917	8·05388708	8·05420489	8·05452260	8·05484022
315	8·05674377	8·05706068	8·05737749	8·05769419	8·05801080
316	8·05990833	8·06022424	8·06054005	8·06085575	8·06117136
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318	8·06620757	8·06652148	8·06683531	8·06714904	8·06746266
319	8·06934236	8·06965531	8·06996815	8·07028089	8·07059354
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321	8·07558264	8·07589363	8·07620453	8·07651532	8·07682603
322	8·07868823	8·07899825	8·07930819	8·07961803	8·07992777
323	8·08178421	8·08209328	8·08240225	8·08271113	8·08301992
324	8·08487063	8·08517875	8·08548677	8·08579470	8·08610254
325	8·08794755	8·08825473	8·08856181	8·08886879	8·08917568
326	8·09101504	8·09132127	8·09162741	8·09193346	8·09223941
327	8·09407315	8·09437844	8·09468365	8·09498876	8·09529378
328	8·09712193	8·09742630	8·09773057	8·09803476	8·09833885
329	8·10016145	8·10046489	8·10076824	8·10107150	8·10137467
330	8·10319175	8·10349428	8·10379671	8·10409906	8·10440131
331	8·10621290	8·10651452	8·10681604	8·10711747	8·10741881
332	8·10922495	8·10952565	8·10982628	8·11012680	8·11042724
333	8·11222796	8·11252776	8·11282748	8·11312710	8·11342664
334	8·11522197	8·11552088	8·11581970	8·11611843	8·11641707
335	8·11820705	8·11850507	8·11880300	8·11910084	8·11939859
336	8·12118324	8·12148037	8·12177742	8·12207438	8·12237124
337	8·12415060	8·12444686	8·12474302	8·12503910	8·12533509
338	8·12710919	8·12740456	8·12769985	8·12799506	8·12829017
339	8·13005904	8·13035355	8·13064797	8·13094230	8·13123655
340	8·13300022	8·13329386	8·13358742	8·13388089	8·13417427
341	8·13593277	8·13622555	8·13651825	8·13681086	8·13710339
342	8·13885675	8·13914868	8·13944052	8·13973228	8·14002595
343	8·14177220	8·14206328	8·14235428	8·14264519	8·14293601
344	8·14467918	8·14496942	8·14525957	8·14554963	8·14583961
345	8·14757774	8·14786713	8·14815644	8·14844567	8·14873481
346	8·15046791	8·15075647	8·15104495	8·15133334	8·15162165
347	8·15334976	8·15363749	8·15392513	8·15421269	8·15450018
348	8·15622332	8·15651023	8·15679705	8·15708379	8·15737044
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351	8·16337132	8·16365618	8·16394095	8·16422566	8·16451027
352	8·16621627	8·16650092	8·16678429	8·16706818	8·16735199
353	8·16905315	8·16933640	8·16961956	8·16990265	8·17018565
354	8·17188201	8·17216445	8·17244682	8·17272910	8·17301131
355	8·17470288	8·17498453	8·17526610	8·17554760	8·17582901
356	8·17751582	8·17779668	8·17807746	8·17835817	8·17863879
357	8·18032087	8·18060095	8·18088094	8·18116086	8·18144070
358	8·18311808	8·18339737	8·18367658	8·18395572	8·18423477
359	8·18590748	8·18618599	8·18646443	8·18674279	8·18702107
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361	8·19146305	8·19174002	8·19201691	8·19229373	8·19257047
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366	8·20521843	8·20549161	8·20576472	8·20603776	8·20631073
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368	8·21066803	8·21093973	8·21121136	8·21146292	8·21175439
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373	8·22416351	8·22443157	8·22469956	8·22496748	8·22523532
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371	8·22013396	8·22040316	8·22067227	8·22094117	8·22121009
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474	8·46379242	8·46400336	8·46421427	8·46442513	8·46463594
475	8·46589990	8·46611040	8·46632087	8·46653128	8·46674165
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487	8·49084922	8·49105453	8·49125981	8·49146504	8·49167023
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489	8·49494758	8·49515206	8·49535650	8·49556089	8·49576524
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595	8·69114650	8·69131455	8·69148258	8·69165057	8·69181854
596	8·69282576	8·69299353	8·69316127	8·69332899	8·69349668
597	8·69450221	8·69466970	8·69483716	8·69500459	8·69517200
598	8·69617585	8·69634306	8·69651024	8·69667739	8·69684452
599	8·69784669	8·69801362	8·69818053	8·69834740	8·69851425

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552	8·61703853	8·61721950	8·61740045	8·61758137	8·61776225
553	8·61884685	8·61902750	8·61920812	8·61938870	8·61956926
554	8·62065190	8·62083223	8·62101252	8·62119278	8·62137301
555	8·62245370	8·62263370	8·62281367	8·62299361	8·62317351
556	8·62425226	8·62443194	8·62461159	8·62479120	8·62497078
557	8·62604760	8·62622695	8·62640628	8·62658557	8·62676483
558	8·62783971	8·62801875	8·62819775	8·62837672	8·62855566
559	8·62962862	8·62980734	8·62998602	8·63016467	8·63034329
560	8·63141434	8·63159273	8·63177110	8·63194943	8·63212773
561	8·63319687	8·63337495	8·63355299	8·63373101	8·63390899
562	8·63497623	8·63515399	8·63533172	8·63550942	8·63568709
563	8·63675243	8·63692987	8·63710729	8·63728467	8·63746202
564	8·63852548	8·63870261	8·63887971	8·63905678	8·63923382
565	8·64029539	8·64047221	8·64064900	8·64082575	8·64100248
566	8·64206217	8·64223868	8·64241516	8·64259160	8·64276801
567	8·64382584	8·64400204	8·64417821	8·64435434	8·64453044
568	8·64558641	8·64576229	8·64593815	8·64611397	8·64628976
569	8·64734388	8·64751945	8·64769500	8·64787052	8·64804600
570	8·64909826	8·64927353	8·64944877	8·64962398	8·64979916
571	8·65084958	8·65102454	8·65119947	8·65137437	8·65154924
572	8·65259783	8·65277249	8·65294711	8·65312171	8·65329627
573	8·65434303	8·65451738	8·65469170	8·65486600	8·65504026
574	8·65608519	8·65625924	8·65643326	8·65660725	8·65678121
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581	8·66819607	8·66836802	8·66853994	8·66871184	8·66888370
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585	8·67505128	8·67522206	8·67539281	8·67556353	8·67573422
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588	8·68016202	8·68033193	8·68050181	8·68067166	8·68084148
589	8·68186981	8·68202943	8·68219903	8·68236859	8·68253812
590	8·68355473	8·68372406	8·68389337	8·68406264	8·68423189
591	8·68524678	8·68541582	8·68558484	8·68575383	8·68592280
592	8·68693597	8·68710473	8·68727346	8·68744217	8·68761084
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603	8·70450229	8·70466811	8·70483391	8·70499968	8·70516542
604	8·70615929	8·70632484	8·70649036	8·70665586	8·70682132
605	8·70781355	8·70797883	8·70814408	8·70830930	8·70847449
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608	8·71275998	8·71292444	8·71308887	8·71325327	8·71341765
609	8·71440336	8·71456755	8·71473171	8·71489585	8·71505996
610	8·71604405	8·71620797	8·71637187	8·71653573	8·71669957
611	8·71768205	8·71784571	8·71800933	8·71817293	8·71833650
612	8·71931738	8·71948076	8·71964411	8·71980745	8·71997076
613	8·72095003	8·72111315	8·72127624	8·72143931	8·72160235
614	8·72258002	8·72274287	8·72290570	8·72306850	8·72323128
615	8·72420736	8·72436995	8·72453251	8·72469505	8·72485756
616	8·72583206	8·72599438	8·72615668	8·72631895	8·72648120
617	8·72745412	8·72761618	8·72777821	8·72794022	8·72810221
618	8·72907355	8·72923535	8·72939712	8·72955887	8·72972059
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620	8·73230457	8·73246585	8·73262710	8·73278832	8·73294952
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622	8·73552519	8·73568594	8·73584668	8·73600738	8·73616807
623	8·73713161	8·73729211	8·73745259	8·73761304	8·73777346
624	8·73873546	8·73889570	8·73905592	8·73921612	8·73937628
625	8·74033674	8·74049673	8·74065669	8·74081663	8·74097654
626	8·74193546	8·74209519	8·74225490	8·74241458	8·74257424
627	8·74353163	8·74369111	8·74385056	8·74400999	8·74416939
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634	8·75463405	8·75479176	8·75494946	8·75510712	8·75526476
635	8·75621009	8·75636756	8·75652500	8·75668242	8·75683982
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637	8·75935475	8·75951172	8·75966867	8·75982560	8·75998249
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639	8·76248955	8·76264603	8·76280249	8·76295892	8·76311533
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641	8·76561455	8·76577054	8·76592651	8·76608246	8·76623838
642	8·76717340	8·76732915	8·76748488	8·76764058	8·76779626
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644	8·77028382	8·77043909	8·77059433	8·77074955	8·77090474
645	8·77183541	8·77199044	8·77214544	8·77230042	8·77245537
646	8·77338460	8·77353938	8·77369415	8·77384889	8·77400360
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648	8·77647579	8·77663010	8·77678438	8·77693865	8·77709288
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603	8·70533113	8·70549682	8·70566248	8·70582811	8·70599371
604	8·70698676	8·70715218	8·70731756	8·70748292	8·70764825
605	8·70863966	8·70880480	8·70896991	8·70913499	8·70930005
606	8·71028982	8·71045469	8·71061953	8·71078434	8·71094913
607	8·71193727	8·71210186	8·71226643	8·71243097	8·71259549
608	8·71358201	8·71374633	8·71391063	8·71407490	8·71423914
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610	8·71686339	8·71702717	8·71719093	8·71735467	8·71751837
611	8·71850005	8·71866357	8·71882706	8·71899052	8·71915396
612	8·72013404	8·72029729	8·72046051	8·72062371	8·72078688
613	8·72176536	8·72192834	8·72209130	8·72225424	8·72241714
614	8·72339402	8·72355674	8·72371944	8·72388211	8·72404475
615	8·72502004	8·72518250	8·72534492	8·72550733	8·72566971
616	8·72664342	8·72680561	8·72696777	8·72712992	8·72729203
617	8·72826416	8·72842609	8·72858800	8·72874987	8·72891173
618	8·72988229	8·73004395	8·73020560	8·73036721	8·73052880
619	8·73149779	8·73165920	8·73182058	8·73198194	8·73214327
620	8·73311070	8·73327185	8·73343297	8·73359406	8·73375513
621	8·73472100	8·73488189	8·73504275	8·73520359	8·73536440
622	8·73632872	8·73648935	8·73664995	8·73681053	8·73697109
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626	8·74273387	8·74289347	8·74305305	8·74321260	8·74337213
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628	8·74592112	8·74608022	8·74623929	8·74639833	8·74655735
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630	8·74909825	8·74925684	8·74941541	8·74957395	8·74973246
631	8·75068304	8·75084138	8·75099969	8·75115798	8·75131625
632	8·75226531	8·75242340	8·75258147	8·75273951	8·75289752
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634	8·75542238	8·75557997	8·75573754	8·75589508	8·75602260
635	8·75699718	8·75715453	8·75731185	8·75746914	8·75762641
636	8·75856951	8·75872661	8·75888368	8·75904073	8·75919775
637	8·76013937	8·76029622	8·76045305	8·76060985	8·76076662
638	8·76170677	8·76186337	8·76201995	8·76217651	8·76233304
639	8·76337171	8·76342807	8·76358441	8·76374072	8·76389701
640	8·76483421	8·76499033	8·76514642	8·76530249	8·76545853
641	8·76639428	8·76655015	8·76670600	8·76686182	8·76701762
642	8·76795191	8·76810754	8·76826315	8·76841873	8·76857428
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644	8·77105992	8·77121506	8·77137019	8·77152528	8·77168036
645	8·77261030	8·77276521	8·77292009	8·77307495	8·77322979
646	8·77415829	8·77431296	8·77446760	8·77462222	8·77477682
647	8·77570389	8·77585832	8·77601272	8·77616710	8·77632146
648	8·77724710	8·77740129	8·77755545	8·77770960	8·77786371
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653	8·78416222	8·78431535	8·78446845	8·78462153	8·78477459
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656	8·78874588	8·78889831	8·78905071	8·78920309	8·78935545
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658	8·79179002	8·79194199	8·79209393	8·79224585	8·79239774
659	8·79330863	8·79346036	8·79361207	8·79376376	8·79391542
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677	8·82025637	8·82040407	8·82055174	8·82069940	8·82084703
678	8·82173238	8·82187986	8·82202732	8·82217476	8·82232218
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689	8·83782636	8·83797149	8·83811660	8·83826168	8·83840675
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692	8·84217105	8·84231555	8·84246002	8·84260448	8·84274892
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694	8·84505705	8·84520114	8·84534520	8·84548924	8·84563326
695	8·84649694	8·84664081	8·84678467	8·84692850	8·84707231
696	8·84793475	8·84807842	8·84822207	8·84836569	8·84850930
697	8·84937050	8·84951397	8·84965741	8·84980083	8·84994423
698	8·85080420	8·85094745	8·85109069	8·85123390	8·85137710
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653	8·78492763	8·78508064	8·78523362	8·78538659	8·78553953
654	8·78645668	8·78660946	8·78676221	8·78691494	8·78706765
655	8·78798340	8·78813594	8·78828846	8·78844096	8·78859343
656	8·78950779	8·78966010	8·78981239	8·78996465	8·79011689
657	8·79103886	8·79118194	8·79133399	8·79148603	8·79163804
658	8·79254961	8·79270146	8·79285329	8·79300509	8·79315687
659	8·79406707	8·79421868	8·79437028	8·79452185	8·79467340
660	8·79558282	8·79573361	8·79588497	8·79603632	8·79618763
661	8·79709508	8·79724624	8·79739737	8·79754849	8·79769958
662	8·79860565	8·79875658	8·79890749	8·79905838	8·79920924
663	8·80011395	8·80026465	8·80041533	8·80056599	8·80071663
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666	8·80462528	8·80477526	8·80492526	8·80507524	8·80522520
667	8·80612448	8·80627429	8·80642406	8·80657382	8·80672355
668	8·80762149	8·80777107	8·80792062	8·80807016	8·80821967
669	8·80911626	8·80926561	8·80941494	8·80956425	8·80971354
670	8·81060880	8·81075793	8·81090704	8·81105612	8·81120519
671	8·81209911	8·81224802	8·81239691	8·81254577	8·81269461
672	8·81358720	8·81373589	8·81388456	8·81403320	8·81418182
673	8·81507309	8·81522156	8·81537000	8·81551842	8·81566682
674	8·81655677	8·81670508	8·81685334	8·81700144	8·81714962
675	8·81803825	8·81818628	8·81833428	8·81848227	8·81863023
676	8·81951754	8·81966585	8·81981314	8·81996090	8·82010864
677	8·82099465	8·82114234	8·82128981	8·82143735	8·82158488
678	8·82246957	8·82261695	8·82276430	8·82291163	8·82305893
679	8·82394233	8·82408948	8·82423662	8·82438373	8·82453082
680	8·82541292	8·82555986	8·82570677	8·82585367	8·82600055
681	8·82688134	8·82702807	8·82717477	8·82732145	8·82746811
682	8·82834762	8·82849413	8·82864062	8·82878708	8·82893353
683	8·82981175	8·82995804	8·83010432	8·83025057	8·83039680
684	8·83127374	8·83141982	8·83156588	8·83171192	8·83185794
685	8·83272359	8·83287946	8·83302531	8·83317113	8·83331694
686	8·83419132	8·83433697	8·83448261	8·83462822	8·83477381
687	8·83564692	8·83579237	8·83593779	8·83608319	8·83622857
688	8·83710041	8·83724564	8·83739086	8·83753605	8·83768122
689	8·83855179	8·83869681	8·83884181	8·83898679	8·83913175
690	8·84000107	8·84014588	8·84029067	8·84043544	8·84058019
691	8·84144824	8·84159285	8·84173743	8·84188199	8·84202653
692	8·84289333	8·84303772	8·84318210	8·84332645	8·84347078
693	8·84433638	8·84448052	8·84462468	8·84476883	8·84491295
694	8·84577725	8·84592123	8·84606519	8·84620913	8·84635304
695	8·84721610	8·84736998	8·84750383	8·84764736	8·84779106
696	8·84865289	8·84879645	8·84894000	8·84908352	8·84922702
697	8·85008761	8·85023097	8·85037430	8·85051762	8·85066092
698	8·85152027	8·85166343	8·85180656	8·85194967	8·85209276
699	8·85295089	8·85309384	8·85323676	8·85337967	8·85352256

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701	8·85509298	8·85523562	8·85537825	8·85552085	8·85566343
702	8·85651850	8·85666094	8·85680336	8·85694576	8·85708814
703	8 85794199	8·85808422	8·85822644	8·85836864	8·85851081
704	8·85936345	8·85950548	8·85964750	8·85978949	8·85993147
705	8·86078290	8·86092473	8·86106654	8·86120834	8·86135011
706	8·86220033	8·86234196	8·86248358	8·86262517	8·86276674
707	8·86361576	8·86375719	8·86389860	8·86404000	8·86418137
708	8·86502919	8·86517042	8·86531163	8·86545283	8·86559400
709	8·86644062	8·86658165	8·86672267	8·86686366	8·86700464
710	8·86785006	8·86799090	8·86813171	8·86827251	8·86841329
711	8·86925752	8·86939816	8·86953878	8·86967938	8·86981995
712	8·87066300	8·87080344	8·87094386	8·87108426	8·87122464
713	8·87206651	8·87220676	8·87234698	8·87248718	8·87262737
714	8·87346806	8·87360810	8·87374813	8·87388814	8·87402812
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716	8·87626526	8·87640492	8·87654455	8·87668417	8·87682376
717	8·87766093	8·87780039	8·87793984	8·87807926	8·87821866
718	8·87905466	8·87919393	8·87933318	8·87947240	8·87961161
719	8·88044645	8·88058552	8·88072458	8·88086361	8·88100263
720	8·88183631	8·88197518	8·88211404	8·88225289	8·88239171
721	8·88322423	8·88336292	8·88350158	8·88364023	8·88377886
722	8·88461023	8·88474873	8·88488720	8·88502566	8·88516410
723	8·88599432	8·88613262	8·88627090	8·88640917	8·88654741
724	8·88737649	8·88751460	8·88765269	8·88779076	8·88792882
725	8·88875675	8·88889467	8·88903257	8·88917046	8·88930832
726	8·89013511	8·89027284	8·89041055	8·89054825	8·89068592
727	8·89151157	8·89164911	8·89178664	8·89192414	8·89206163
728	8·89288614	8·89302349	8·89316083	8·89329814	8·89343544
729	8·89425883	8·89439599	8·89453314	8·89467026	8·89480737
730	8·89562963	8·89576660	8·89590356	8·89604050	8·89617742
731	8·89699855	8·89713534	8·89727211	8·89740887	8·89754560
732	8·89836561	8·89850221	8·89863879	8·89877536	8·89891191
733	8·89973080	8·89986721	8·90000361	8·90013999	8·90027635
734	8 90109412	8 90123035	8·90136656	8·90150276	8·90163893
735	8·90245559	8·90259164	8·90272766	8·90286367	8·90299966
736	8·90381521	8·90395107	8·90408691	8·90422274	8·90435854
737	8·90517299	8·90530866	8·90544432	8·90557996	8·90571558
738	8·90652892	8·90666441	8·90679988	8·90693534	8·90707078
739	8·90788301	8·90801832	8·90815361	8·90828889	8·90842414
740	8 90923528	8·90937041	8·90950551	8·90964060	8·90977567
741	8·91058572	8 91072066	8·91085559	8·91099049	8·91112538
742	8·91193434	8·91206910	8·91220384	8·91233857	8·91247328
743	8·91328114	8 91341572	8·91355028	8·91368482	8·91381935
744	8·91462613	8·91476053	8·91489491	8·91502927	8·91516362
745	8·91596931	8·91610353	8·91623773	8·91637191	8·91650608
746	8 91731069	8·91744473	8·91757875	8·91771276	8·91784674
747	8·91865028	8·91878414	8·91891798	8·91905180	8·91918561
748	8 91998807	8·92012175	8·92025542	8·92038906	8·92052269
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702	8·85723049	8·85737283	8·85751515	8·85765745	8·85779973
703	8·85865297	8·85879511	8·85893722	8·85907932	8·85922139
704	8·86007342	8·86021536	8·86035727	8·86049917	8·86064104
705	8·86149186	8·86163360	8·86177531	8·86191700	8·86205868
706	8·86290830	8·86304983	8·86319134	8·86333283	8·86347431
707	8·86432272	8·86446406	8·86460537	8·86474666	8·86488793
708	8·86573515	8·86587628	8·86601740	8·86615849	8·86629957
709	8·86714559	8·86728652	8·86742744	8·86756833	8·86770921
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711	8·86996051	8·87010105	8·87024157	8·87038207	8·87052255
712	8·87136500	8·87150535	8·87164567	8·87178597	8·87192625
713	8·87276753	8·87290767	8·87304780	8·87318790	8·87332799
714	8·87416809	8·87430804	8·87444797	8·87458788	8·87472777
715	8·87556669	8·87570645	8·87584618	8·87598589	8·87612559
716	8·87696334	8·87710290	8·87724244	8·87738196	8·87752145
717	8·87835804	8·87849740	8·87863675	8·87877607	8·87891538
718	8·87975080	8·87988997	8·88002912	8·88016825	8·88030736
719	8·88114162	8·88128060	8·88141955	8·88155849	8·88169741
720	8·88253051	8·88266929	8·88280805	8·88294680	8·88308552
721	8·88391747	8·88405606	8·88419463	8·88433319	8·88447172
722	8·88530251	8·88544091	8·88557929	8·88571765	8·88585599
723	8·88668564	8·88682385	8·88696203	8·88710020	8·88723835
724	8·88806686	8·88820487	8·88834287	8·88848085	8·88861881
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726	8·89082358	8·89096121	8·89109883	8·89123643	8·89137401
727	8·89219909	8·89233654	8·89247397	8·89261138	8·89274877
728	8·89357272	8·89370998	8·89384722	8·89398444	8·89412164
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730	8·89631432	8·89645120	8·89658807	8·89672492	8·89686174
731	8·89768231	8·89781901	8·89795569	8·89809234	8·89822899
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733	8·90041269	8·90054901	8·90068532	8·90082161	8·90095787
734	8·90177509	8·90191123	8·90204735	8·90218345	8·90231953
735	8·90313563	8·90327159	8·90340752	8·90354344	8·90367933
736	8·90449433	8·90463010	8·90476585	8·90490158	8·90503729
737	8·90585118	8·90598677	8·90612233	8·90625788	8·90639341
738	8·90720620	8·90734160	8·90747698	8·90761234	8·90774769
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742	8·91260796	8·91274263	8·91287729	8·91301192	8·91314654
743	8·91395386	8·91408835	8·91422282	8·91435727	8·91449171
744	8·91529795	8·91543225	8·91556655	8·91570082	8·91583507
745	8·91664023	8·91677436	8·91690847	8·91704256	8·91717664
746	8·91798071	8·91811466	8·91824859	8·91838251	8·91851640
747	8·91931940	8·91945317	8·91958692	8·91972066	8·91985437
748	8·92065630	8·92078989	8·92092346	8·92105702	8·92119056
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752	8·92532142	8·92545439	8·92558734	8·92572027	8·92585319
753	8 92665032	8·92678311	8·92691589	8·92704865	8·92718139
754	8·92797746	8·92811008	8·92824268	8·92837526	8·92850782
755	8·92930284	8·92943528	8·92956771	8·92970011	8·92983250
756	8·93062647	8·93075874	8·93089098	8·93102322	8·93115543
757	8·93194835	8·93208044	8·93221251	8·93234457	8·93247661
758	8·93326848	8·93340040	8·93353230	8·93366418	8 93379604
759	8·93458687	8·93471861	8·93485034	8·93498205	8·93511374
760	8·93590353	8·93603510	8·93616665	8·93629819	8·93642970
761	8·93721845	8·93734985	8·93748123	8·93761259	8·93774394
762	8·93853165	8·93866287	8·93879408	8·93892527	8·93905645
763	8·93984312	8·93997418	8·94010521	8·94023623	8·94036723
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765	8·94246093	8·94259164	8·94272233	8·94285301	8·94298367
766	8·94376726	8·94389780	8·94402832	8·94415883	8·94428932
767	8·94507190	8·94520226	8·94533262	8·94546295	8·94559327
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769	8·94767606	8·94780609	8·94793611	8·94806610	8·94819608
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776	8·95673761	8·95686647	8·95699531	8·95712414	8·95725294
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779	8·96059614	8·96072450	8·96085285	8·96098117	8·96110949
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781	8·96316024	8·96328823	8·96341629	8·96354429	8·96367228
782	8·96443983	8·96456770	8·96469556	8·96482339	8·96495121
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793	8·97840832	8·97853441	8·97866049	8·97878655	8·97891260
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756	8·93128763	8·93141981	8·93155197	8·93168411	8·93181624
757	8·93260863	8·93274064	8·93287262	8·93300459	8·93313654
758	8·93392789	8·93405972	8·93419154	8·93432333	8 93445511
759	8·93524541	8·93537707	8·93550871	8·93564033	8 93577194
760	8·93656121	8·93669269	8·93682415	8·93695560	8·93708704
761	8·93787527	8·93800658	8·93813787	8·93826915	8·93840041
762	8·93918760	8·93931874	8·93944986	8·93958097	8·93971205
763	8·94049822	8·94062919	8·94076014	8·94089107	8·94102198
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770	8·94962475	8·94975453	8·94988429	8·95001403	8·95014376
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773	8·95351076	8·95364004	8·95376929	8·95389854	8·95402776
774	8·95480275	8·95493186	8·95506095	8·95519002	8·95531908
775	8·95609308	8·95622202	8·95635094	8·95647985	8·95660874
776	8·95738174	8·95751051	8·95763927	8·95776801	8·95789764
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778	8·95995408	8·96008253	8·96021096	8·96033937	8·96046776
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782	8·96507901	8·96520680	8·96533457	8·96546233	8·96559007
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786	8·97017782	8·97030495	8·97043207	8 97055918	8·97068627
787	8·97144846	8·97157544	8·97170240	8·97182934	8·97195627
788	8·97271750	8·97284431	8·97297111	8·97309790	8·97322466
789	8·97398493	8·97411158	8·97423822	8·97436484	8·97449145
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791	8·97651497	8·97664131	8·97676763	8·97689393	8·97702021
792	8·97777760	8·97790377	8·97802993	8·97815608	8·97828220
793	8·97903863	8 97916465	8·97929065	8·97941663	8 97954260
794	8·98029808	8·98042394	8·98054978	8·98067560	8·98080141
795	8·98155594	8·98168164	8·98180732	8·98193299	8·98205864
796	8·98281222	8·98293776	8·98306329	8·98318880	8·98331429
797	8·98406693	8·98419231	8·98431768	8·98444303	8·98456837
798	8·98532006	8·98544529	8 98557050	8·98569569	8·98582087
799	8·98657162	8·98669670	8·98682175	8·98694679	8·98707181

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801	8·98844604	8·98857088	8·98869570	8·98882050	8·98894529
802	8·98969370	8·98981838	8·98994305	8·99006770	8·99019233
803	8·99093981	8·99106433	8·99118884	8·99131334	8·99143782
804	8·99218430	8·99230873	8·99243309	8·99255743	8·99268175
805	8·99342737	8·99355159	8·99367579	8·99379997	8·99392414
806	8·99466884	8·99479290	8·99491694	8·99504097	8·99516499
807	8·99590876	8·99603267	8·99615656	8·99628044	8·99640430
808	8·99714715	8·99727091	8·99739465	8·99751837	8·99764208
809	8·99838401	8·99850761	8·99863120	8·99875477	8·99887833
810	8·99961934	8·99974279	8·99986622	8·99998964	9·00011305
811	9·00085315	9·00097644	9·00109973	9·00122299	9·00134624
812	9·00208543	9·00220858	9·00233170	9·00245482	9·00257792
813	9·00331620	9·00343920	9·00356218	9·00368514	9·00380809
814	9·00454546	9·00466830	9·00479113	9·00491394	9·00503674
815	9·00577321	9·00589590	9·00601858	9·00614124	9·00626388
816	9·00699945	9·00712199	9·00724452	9·00736703	9·00748952
817	9·00822419	9·00834658	9·00846896	9·00859132	9·00871366
818	9·00944743	9·00956967	9·00969190	9·00981411	9·00993631
819	9·01066918	9·01079127	9·01091335	9·01103541	9·01115746
820	9·01188943	9·01201138	9·01213331	9·01225522	9·01237712
821	9·01310820	9·01323000	9·01335178	9·01347354	9·01359530
822	9·01432549	9·01444714	9·01456877	9·01469039	9·01481199
823	9·01554129	9·01566279	9·01578428	9·01590575	9·01602720
824	9·01675562	9·01687698	9·01699831	9·01711963	9·01724094
825	9·01796848	9·01808968	9·01821087	9·01833205	9·01845321
826	9·01917987	9·01930092	9·01942197	9·01954300	9·01966401
827	9·02038979	9·02051070	9·02063160	9·02075248	9·02087335
828	9·02159825	9·02171901	9·02183976	9·02196050	9·02208122
829	9·02280525	9·02292587	9·02304647	9·02316706	9·02328764
830	9·02401079	9·02413127	9·02425173	9·02437217	9·02449261
831	9·02521489	9·02533522	9·02545553	9·02557583	9·02569611
832	9·02641753	9·02653772	9·02665789	9·02677805	9·02689819
833	9·02761874	9·02773878	9·02785880	9·02797881	9·02809881
834	9·02881850	9·02893839	9·02905828	9·02917814	9·02929800
835	9·03001682	9·03013657	9·03025631	9·03037603	9·03049575
836	9·03121371	9·03133333	9·03145291	9·03157249	9·03169206
837	9·03240916	9·03252863	9·03264808	9·03276752	9·03288695
838	9·03360319	9·03372252	9·03384183	9·03396112	9·03408041
839	9·03479580	9·03491498	9·03503415	9·03515330	9·03527244
840	9·03598699	9·03610603	9·03622505	9·03634406	9·03646306
841	9·03717675	9·03729565	9·03741454	9·03753341	9·03765226
842	9·03836511	9·03848386	9·03860261	9·03872134	9·03884005
843	9·03955205	9·03967067	9·03978927	9·03990786	9·04002643
844	9·04073759	9·04085606	9·04097453	9·04109297	9·04121141
845	9·04192172	9·04204006	9·04215838	9·04227669	9·04239498
846	9·04310445	9·04322265	9·04334083	9·04345900	9·04357715
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848	9·04546573	9·04558365	9·04570155	9·04581944	9·04593732
849	9·04664428	9·04676206	9·04687982	9·04699757	9·04711531

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802	8·99031695	8·99044155	8·99056614	8·99069071	8·99081527
803	8·99156228	8·99168673	8·99181116	8·99193557	8·99205998
804	8·99280606	8·99293035	8·99305463	8·99317889	8·99330314
805	8·99404830	8·99417243	8·99429656	8·99442067	8·99454476
806	8·99528899	8·99541298	8·99553695	8·99566090	8·99578484
807	8·99652815	8·99665198	8·99677580	8·99689960	8·99702338
808	8·99776577	8·99788945	8·99801311	8·99813676	8·99826039
809	8·99900187	8·99912539	8·99924890	8·99937239	8·99949588
810	9·00023643	9·00035981	9·00048317	9·00060651	9·00072984
811	9·00146948	9·00159270	9·00171591	9·00183910	9·00196227
812	9·00270101	9·00282408	9·00294713	9·00307017	9·00319319
813	9·00393102	9·00405394	9·00417684	9·00429973	9·00442260
814	9·00515952	9·00528229	9·00540504	9·00552778	9·00565050
815	9·00638652	9·00650913	9·00663173	9·00675431	9·00687689
816	9·00761201	9·00773447	9·00785692	9·00797936	9·00810178
817	9·00883600	9·00895831	9·00908061	9·00920290	9·00932517
818	9·01005849	9·01018066	9·01030281	9·01042495	9·01054707
819	9·01127949	9·01140151	9·01152351	9·01164551	9·01176748
820	9·01249900	9·01262087	9·01274273	9·01286457	9·01298639
821	9·01371703	9·01383875	9·01396046	9·01408215	9·01420383
822	9·01493358	9·01505515	9·01517671	9·01529825	9·01541978
823	9·01614864	9·01627007	9·01639148	9·01651288	9·01663426
824	9·01736224	9·01748351	9·01760478	9·01772603	9·01784726
825	9·01857436	9·01869549	9·01881660	9·01893771	9·01905879
826	9·01978501	9·01990600	9·02002697	9·02014792	9·02026886
827	9·02099420	9·02111504	9·02123586	9·02131667	9·02147747
828	9·02220193	9·02232262	9·02244330	9·02256396	9·02268461
829	9·02340820	9·02352875	9·02364928	9·02376980	9·02389030
830	9·02461302	9·02473342	9·02485381	9·02497418	9·02509454
831	9·02581639	9·02593665	9·02605689	9·02617712	9·02629733
832	9·02701832	9·02713843	9·02725853	9·02737861	9·02749868
833	9·02821880	9·02833876	9·02845872	9·02857866	9·02869858
834	9·02941784	9·02953766	9·02965747	9·02977727	9·02989705
835	9·03061544	9·03073512	9·03085479	9·03097444	9·03109408
836	9·03181161	9·03193115	9·03205068	9·03217019	9·03228968
837	9·03300636	9·03312575	9·03324513	9·03336450	9·03348386
838	9·03419967	9·03431893	9·03443817	9·03455739	9·03467660
839	9·03539157	9·03551068	9·03562978	9·03574886	9·03586793
840	9·03658205	9·03670102	9·03681997	9·03693891	9·03705784
841	9·03777111	9·03788994	9·03800875	9·03812755	9·03824634
842	9·03895876	9·03907744	9·03919612	9·03931478	9·03943342
843	9·04014500	9·04026354	9·04038207	9·04050059	9·04061910
844	9·04132983	9·04144824	9·04156663	9·04168501	9·04180337
845	9·04251326	9·04263153	9·04274978	9·04286802	9·04298624
846	9·04369530	9·04381342	9·04393153	9·04404963	9·04416772
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848	9·04605518	9·04617303	9·04629086	9·04640868	9·04652649
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852	9·05017162	9·05028898	9·05040633	9·05052367	9·05064099
853	9·05134464	9·05146187	9·05157908	9·05169628	9·05181346
854	9·05251629	9·05263338	9·05275045	9·05286751	9·05298456
855	9·05368656	9·05380351	9·05392045	9·05403738	9·05415429
856	9·05485547	9·05497229	9·05508909	9·05520588	9·05532265
857	9·05602301	9·05613969	9·05625636	9·05637301	9·05648965
858	9·05718919	9·05730574	9·05742227	9·05753878	9·05765528
859	9·05835402	9·05847042	9·05858682	9·05870320	9·05881956
860	9·05951748	9·05963375	9·05975001	9·05986626	9·05998249
861	9·06067960	9·06079573	9·06091186	9·06102797	9·06114407
862	9·06184036	9·06195637	9·06207236	9·06218833	9·06230429
863	9·06299979	9·06311565	9·06323151	9·06334735	9·06346318
864	9·06415786	9·06427360	9·06438931	9·06450502	9·06462072
865	9·06531460	9·06543020	9·06554579	9·06566136	9·06577692
866	9·06647000	9·06658547	9·06670092	9·06681636	9·06693179
867	9·06762407	9·06773940	9·06785472	9·06797003	9·06808532
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869	9·06992822	9·07004329	9·07015834	9·07027338	9·07038841
870	9·07107831	9·07119324	9·07130816	9·07142307	9·07153797
871	9·07222707	9·07234187	9·07245666	9·07257144	9·07268621
872	9·07337452	9·07348919	9·07360385	9·07371849	9·07383313
873	9·07452065	9·07463519	9·07474972	9·07486423	9·07497873
874	9·07566547	9·07577988	9·07589428	9·07600866	9·07612303
875	9·07680898	9·07692326	9·07703753	9·07715178	9·07726602
876	9·07795118	9·07806533	9·07817947	9·07829359	9·07840770
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878	9·08023169	9·08034558	9·08045945	9·08057331	9·08068716
879	9·08136999	9·08148375	9·08159750	9·08171123	9·08182495
880	9·08250700	9·08262063	9·08273425	9·08284785	9·08296144
881	9·08364272	9·08375622	9·08386971	9·08398318	9·08409665
882	9·08477715	9·08489052	9·08500388	9·08511723	9·08523056
883	9·08591029	9·08602354	9·08613677	9·08624999	9·08636319
884	9·08704216	9·08715527	9·08726837	9·08738146	9·08749454
885	9·08817274	9·08828573	9·08839870	9·08851166	9·08862461
886	9·08930204	9·08941490	9·08952775	9·08964059	9·08975341
887	9·09043008	9·09054281	9·09065553	9·09076824	9·09088093
888	9·09155684	9·09166944	9·09178204	9·09189462	9·09200719
889	9·09268233	9·09279481	9·09290728	9·09301973	9·09313217
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891	9·09492952	9·09504175	9·09515396	9·09526616	9·09537835
892	9·09605123	9·09616333	9·09627542	9·09638749	9·09649956
893	9·09717167	9·09728365	9·09739561	9·09750756	9·09761950
894	9·09829087	9·09840272	9·09851456	9·09862638	9·09873820
895	9·09940881	9·09952054	9·09963225	9·09974395	9·09985564
896	9·10052551	9·10063711	9·10074870	9·10086027	9·10097184
897	9·10164096	9·10175243	9·10186390	9·10197535	9·10208679
898	9·10275516	9·10286651	9·10297785	9·10308918	9·10320050
899	9·10386813	9·10397936	9·10409057	9·10420178	9·10431297

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852	9·05075830	9·05087560	9·05099288	9·05111015	9·05122740
853	9·05193064	9·05204779	9·05216494	9·05228207	9·05239918
854	9·05310160	9·05321862	9·05333562	9·05345262	9·05356960
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858	9·05777177	9·05788825	9·05800471	9·05812116	9·05823759
859	9·05893592	9·05905226	9·05916858	9·05928490	9·05940120
860	9·06009871	9·06021491	9·06033110	9·06044728	9·06056345
861	9·06126015	9·06137622	9·06149228	9·06160832	9·06172435
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863	9·06357899	9·06369479	9·06381058	9·06392635	9·06404211
864	9·06473640	9·06485207	9·06496772	9·06508336	9·06519899
865	9·06589247	9·06600800	9·06612352	9·06623903	9·06635452
866	9·06704720	9·06716260	9·06727799	9·06739336	9·06750872
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873	9·07509322	9·07520770	9·07532216	9·07543661	9·07555105
874	9·07623739	9·07635173	9·07646606	9·07658038	9·07669469
875	9·07738025	9·07749446	9·07760866	9·07772285	9·07783702
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878	9·08080100	9·08091482	9·08102864	9·08114243	9·08125622
879	9·08193866	9·08205235	9·08216603	9·08227970	9·08239336
880	9·08307502	9·08318859	9·08330214	9·08341568	9·08352921
881	9·08421010	9·08432353	9·08443696	9·08455037	9·08466376
882	9·08534388	9·08545719	9·08547049	9·08568377	9·08579704
883	9·08647639	9·08658957	9·08670273	9·08681589	9·08692903
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885	9·08873755	9·08885047	9·08896339	9·08907628	9·08918917
886	9·08986622	9·08997902	9·09009180	9·09020457	9·09031733
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890	9·09436820	9·09448049	9·09459276	9·09470503	9·09481728
891	9·09549053	9·09560270	9·09571485	9·09582699	9·09593911
892	9·09661161	9·09672365	9·09683567	9·09694769	9·09705969
893	9·09773143	9·09754334	9·09795524	9·09806713	9·09817901
894	9·09885000	9·09896178	9·09907356	9·09916532	9·09929707
895	9·09996732	9·10007898	9·10019063	9·10030227	9·10041389
896	9·10108339	9·10119493	9·10130645	9·10141797	9·10152947
897	9·10219821	9·10230963	9·10242103	9·10253242	9·10264380
898	9·10331180	9·10342309	9·10353437	9·10364563	9·10375686
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902	9·10719961	9·10731047	9·10742132	9·10753215	9·10764297
903	9·10830765	9·10841838	9·10852911	9·10863982	9·10875052
904	9·10941445	9·10952507	9·10963567	9·10974626	9·10985683
905	9·11052004	9·11063053	9·11074101	9·11085147	9·11096193
906	9·11162440	9·11173477	9·11184513	9·11195547	9·11206580
907	9·11272754	9·11283779	9·11294803	9·11305825	9·11316846
908	9·11382947	9·11393960	9·11404971	9·11415981	9·11426990
909	9·11493019	9·11504019	9·11515019	9·11526017	9·11537013
910	9·11602970	9·11613958	9·11624945	9·11635931	9·11646916
911	9·11712799	9·11723775	9·11734751	9·11745724	9·11756697
912	9·11822508	9·11833473	9·11844436	9·11855398	9·11866358
913	9·11932097	9·11943050	9·11954001	9·11964951	9·11975899
914	9·12041566	9·12052507	9·12063446	9·12074384	9·12085321
915	9·12150916	9·12161844	9·12172771	9·12183697	9·12194622
916	9·12260146	9·12271062	9·12281977	9·12292892	9·12303804
917	9·12369257	9·12380161	9·12391064	9·12401967	9·12412868
918	9·12478248	9·12489141	9·12500033	9·12510923	9·12521812
919	9·12587122	9·12598002	9·12608882	9·12619760	9·12630638
920	9·12695876	9·12706745	9·12717613	9·12728480	9·12739345
921	9·12804513	9·12815370	9·12826226	9·12837081	9·12847935
922	9·12913032	9·12923877	9·12934721	9·12945564	9·12956406
923	9·13021433	9·13032266	9·13043099	9·13053930	9·13064760
924	9·13129716	9·13140538	9·13151359	9·13162179	9·13172997
925	9·13237883	9·13248693	9·13259502	9·13270310	9·13281117
926	9·13345933	9·13356731	9·13367529	9·13378325	9·13389120
927	9·13453866	9·13464653	9·13475439	9·13486223	9·13497007
928	9·13561683	9·13572458	9·13583232	9·13594005	9·13604777
929	9·13669383	9·13680147	9·13690909	9·13701671	9·13712431
930	9·13776968	9·13787720	9·13798471	9·13809221	9·13819969
931	9·13884437	9·13895178	9·13905917	9·13916655	9·13927392
932	9·13991791	9·14002520	9·14013248	9·14023974	9·14034700
933	9·14099029	9·14109747	9·14120463	9·14131179	9·14141893
934	9·14206153	9·14216859	9·14227564	9·14238268	9·14248971
935	9·14313162	9·14323857	9·14334550	9·14345243	9·14355934
936	9·14420057	9·14430740	9·14441422	9·14452103	9·14462783
937	9·14526838	9·14537509	9·14548180	9·14558850	9·14569518
938	9·14633504	9·14644165	9·14654824	9·14665482	9·14676139
939	9·14740057	9·14750706	9·14761354	9·14772001	9·14782647
940	9·14846497	9·14857135	9·14867771	9·14878407	9·14889041
941	9·14952823	9·14963450	9·14974075	9·14984699	9·14995322
942	9·15059037	9·15069652	9·15080266	9·15090879	9·15101491
943	9·15165138	9·15175741	9·15186344	9·15196946	9·15207546
944	9·15271126	9·15281719	9·15292310	9·15302900	9·15313490
945	9·15377002	9·15387584	9·15398164	9·15408743	9·15419321
946	9·15482766	9·15493336	9·15503906	9·15514474	9·15525041
947	9·15588419	9·15598978	9·15609536	9·15620093	9·15630648
948	9·15693960	9·15704508	9·15715054	9·15725600	9·15736145
949	9·15799389	9·15809926	9·15820462	9·15830996	9·15841530

N	5	6	7	8	9
900	9·10553526	9·10564630	9·10575733	9·10586835	9·10597936
901	9·10664514	9·10675606	9·10686696	9·10697786	9·10708874
902	9·10775378	9·10786459	9·10797537	9·10808614	9·10819690
903	9·10886120	9·10897188	9·10908254	9·10919319	9·10930383
904	9·10996740	9·11007795	9·11018849	9·11029902	9·11040953
905	9·11107237	9·11118280	9·11129322	9·11140362	9·11151402
906	9·11217612	9·11228643	9·11239673	9·11250701	9·11261728
907	9·11327866	9·11338885	9·11349902	9·11360918	9·11371933
908	9·11437998	9·11449005	9·11460010	9·11471014	9·11482017
909	9·11548009	9·11559004	9·11569997	9·11580989	9·11591980
910	9·11657899	9·11668882	9·11679863	9·11690843	9·11701821
911	9·11767669	9·11778639	9·11789608	9·11800576	9·11811543
912	9·11877318	9·11888276	9·11899233	9·11910189	9·11921144
913	9·11986847	9·11997793	9·12008738	9·12019682	9·12030625
914	9·12096256	9·12107190	9·12118123	9·12129056	9·12139986
915	9·12205546	9·12216468	9·12227389	9·12238309	9·12249228
916	9·12314716	9·12325637	9·12336536	9·12347444	9·12358351
917	9·12423767	9·12434666	9·12445563	9·12456460	9·12467355
918	9·12532700	9·12543587	9·12554472	9·12565356	9·12576240
919	9·12641514	9·12652389	9·12663262	9·12674135	9·12685006
920	9·12750209	9·12761072	9·12771934	9·12782795	9·12793655
921	9·12858787	9·12869638	9·12880488	9·12891337	9·12902185
922	9·12967247	9·12978087	9·12988925	9·12999762	9·13010598
923	9·13075589	9·13086417	9·13097244	9·13108069	9·13118893
924	9·13183814	9·13194631	9·13205445	9·13216259	9·13227072
925	9·13291923	9·13302727	9·13313530	9·13324332	9·13335133
926	9·13399914	9·13410707	9·13421498	9·13432289	9·13443078
927	9·13507789	9·13518570	9·13529350	9·13540129	9·13550906
928	9·13615547	9·13626317	9·13637085	9·13647852	9·13658618
929	9·13723190	9·13733948	9·13744705	9·13755460	9·13766215
930	9·13830717	9·13841463	9·13852208	9·13862952	9·13873695
931	9·13938128	9·13948863	9·13959597	9·13970329	9·13981061
932	9·14045425	9·14056148	9·14066870	9·14077591	9·14088311
933	9·14152606	9·14163318	9·14174028	9·14184738	9·14195446
934	9·14259672	9·14270372	9·14281072	9·14291770	9·14302466
935	9·14366624	9·14377313	9·14388001	9·14398687	9·14409373
936	9·14473462	9·14484139	9·14494815	9·14505491	9·14516165
937	9·14580185	9·14590851	9·14601516	9·14612180	9·14622842
938	9·14686795	9·14697450	9·14708103	9·14718756	9·14729407
939	9·14793291	9·14803935	9·14814577	9·14825218	9·14835858
940	9·14899674	9·14910306	9·14920937	9·14931567	9·14942196
941	9·15005944	9·15016565	9·15027185	9·15037803	9·15048420
942	9·15112101	9·15122711	9·15133319	9·15143926	9·15154533
943	9·15218146	9·15228744	9·15239341	9·15249937	9·15260532
944	9·15324078	9·15334665	9·15345251	9·15355836	9·15366419
945	9·15429898	9·15440474	9·15451049	9·15461622	9·15472195
946	9·15535606	9·15546171	9·15556735	9·15567297	9·15577858
947	9·15641203	9·15651757	9·15662309	9·15672860	9·15683410
948	9·15746688	9·15757231	9·15767772	9·15778312	9·15788851
949	9·15852062	9·15862594	9·15873124	9·15883653	9·15894181

N	0	1	2	3	4
950	9·15904708	9·15915234	9·15925758	9·15936282	9·15946804
951	9·16009916	9·16020430	9·16030944	9·16041456	9·16051968
952	9·16115013	9·16125516	9·16136019	9·16146520	9·16157021
953	9·16220000	9·16230492	9·16240984	9·16251474	9·16261964
954	9·16324876	9·16335358	9·16345839	9·16356318	9·16366796
955	9·16429643	9·16440114	9·16450584	9·16461052	9·16471519
956	9·16534301	9·16544760	9·16555219	9·16565676	9·16576133
957	9·16638848	9·16649297	9·16659745	9·16670192	9·16680637
958	9·16743287	9·16753725	9·16764162	9·16774597	9·16785032
959	9·16847617	9·16858044	9·16868470	9·16878895	9·16889318
960	9·16951838	9·16962254	9·16972669	9·16983083	9·16993496
961	9·17055950	9·17066356	9·17076760	9·17087163	9·17097565
962	9·17159954	9·17170349	9·17180742	9·17191135	9·17201526
963	9·17263850	9·17274234	9·17284617	9·17294998	9·17305379
964	9·17367639	9·17378012	9·17388384	9·17398754	9·17409124
965	9·17471319	9·17481681	9·17492043	9·17502403	9·17512762
966	9·17574893	9·17585244	9·17595595	9·17605944	9·17616292
967	9·17678359	9·17688700	9·17699039	9·17709378	9·17719715
968	9·17781718	9·17792048	9·17802377	9·17812705	9·17823032
969	9·17884971	9·17895290	9·17905608	9·17915926	9·17926242
970	9·17988117	9·17998425	9·18008733	9·18019040	9·18029345
971	9·18091156	9·18101454	9·18111751	9·18122047	9·18132342
972	9·18194090	9·18204377	9·18214664	9·18224949	9·18235234
973	9·18296918	9·18307195	9·18317470	9·18327745	9·18338019
974	9·18399640	9·18409906	9·18420171	9·18430436	9·18440699
975	9·18502256	9·18512512	9·18522767	9·18533021	9·18543274
976	9·18604768	9·18615013	9·18625258	9·18635501	9·18645743
977	9·18707175	9·18717409	9·18727643	9·18737876	9·18748108
978	9·18809476	9·18819700	9·18829924	9·18840146	9·18850368
979	9·18911674	9·18921888	9·18932101	9·18942312	9·18952523
980	9·19013767	9·19023970	9·19034173	9·19044374	9·19054575
981	9·19115755	9·19125948	9·19136141	9·19146332	9·19156522
982	9·19217640	9·19227823	9·19238005	9·19248185	9·19258365
983	9·19319421	9·19329594	9·19339765	9·19349935	9·19360105
984	9·19421099	9·19431261	9·19441422	9·19451582	9·19461741
985	9·19522673	9·19532825	9·19542976	9·19553126	9·19563274
986	9·19624145	9·19634286	9·19644427	9·19654566	9·19664705
987	9·19725513	9·19735644	9·19745775	9·19755904	9·19766032
988	9·19826779	9·19836900	9·19847020	9·19857139	9·19867257
989	9·19927943	9·19938053	9·19948163	9·19958272	9·19968379
990	9·20029004	9·20039104	9·20049204	9·20059302	9·20069400
991	9·20129963	9·20140053	9·20150142	9·20160231	9·20170318
992	9·20230820	9·20240900	9·20250979	9·20261057	9·20271135
993	9·20331576	9·20341646	9·20351715	9·20361783	9·20371850
994	9·20432230	9·20442290	9·20452349	9·20462407	9·20472463
995	9·20532783	9·20542833	9·20552882	9·20562929	9·20572976
996	9·20633235	9·20643275	9·20653313	9·20663351	9·20673388
997	9·20733586	9·20743616	9·20753645	9·20763672	9·20773699
998	9·20833837	9·20843857	9·20853875	9·20863893	9·20873909
999	9·20933987	9·20943997	9·20954005	9·20964013	9·20974019

N	5	6	7	8	9
950	9·15957326	9·15967846	9·15978365	9·15988883	9·15999400
951	9·16062478	9 16072987	9·16083495	9·16094002	9·16104508
952	9·16167520	9·16178015	9·16188515	9·16199011	9·16209506
953	9·16272452	9·16282939	9·16293425	9·16303910	9·16314394
954	9·16377274	9·16387750	9·16398225	9·16408699	9·16419172
955	9·16481986	9·16492451	9·16502915	9·16513378	9·16523840
956	9·16586588	9·16597042	9·16607496	9·16617948	9·16628399
957	9·16691081	9·16701525	9·16711967	9·16722408	9·16732848
958	9·16795466	9·16805898	9·16816329	9·16826760	9·16837189
959	9·16899741	9·16910162	9·16920583	9 16931002	9·16941421
960	9·17003908	9·17014318	9·17024728	9·17035136	9·17045544
961	9·17107966	9·17118366	9·17128764	9·17139162	9·17149559
962	9·17211916	9·17222305	9·17232693	9·17243080	9·17253466
963	9·17315758	9·17326136	9·17336513	9·17346890	9·17357265
964	9·17419492	9·17429860	9·17440227	9·17450592	9·17460956
965	9·17523120	9·17533476	9·17543832	9·17554187	9·17564540
966	9·17626639	9·17636985	9·17647330	9·17657674	9·17668017
967	9·17730052	9·17740387	9·17750721	9·17761055	9·17771387
968	9·17833358	9·17843682	9·17854006	9·17864329	9·17874650
969	9·17936557	9·17946871	9·17957184	9·17967496	9·17977807
970	9·18039650	9·18049953	9·18060255	9·18070557	9·18080857
971	9·18142636	9·18152929	9·18163221	9 18173512	9·18183801
972	9·18245517	9·18255799	9·18266080	9·18276360	9·18286640
973	9·18348292	9·18358563	9·18368834	9·18379104	9·18389372
974	9·18450961	9·18461222	9·18471482	9·18481742	9·18491999
975	9·18553525	9·18563776	9·18574026	9·18584274	9·18594522
976	9·18655984	9·18666225	9·18676464	9·18686701	9·18696938
977	9·18758339	9·18768568	9·18778797	9·18789024	9·18799251
978	9·18860588	9·18870807	9·18881025	9·18891243	9·18901459
979	9·18962733	9·18972942	9·18983150	9·18993356	9·19003562
980	9·19064774	9·19074972	9·19085170	9·19095367	9·19105561
981	9·19166711	9·19176899	9·19187086	9·19197272	9·19207456
982	9 19268544	9·19278721	9·19288898	9·19299073	9·19309248
983	9·19370273	9·19380440	9·19390607	9·19400772	9·19410936
984	9·19471899	9 19482056	9·19492212	9·19502367	9·19512521
985	9·19573422	9·19583569	9·19593714	9·19603859	9·19614002
986	9·19674842	9·19684978	9·19695114	9·19705248	9·19715381
987	9·19776159	9·19786285	9·19796410	9·19806534	9·19816657
988	9·19877374	9·19887489	9·19897604	9·19907718	9·19917831
989	9·19978486	9·19988591	9·19998696	9·20008800	9·20018902
990	9·20079496	9·20089591	9·20099686	9·20109779	9·20119871
991	9·20180404	9·20190489	9·20200574	9 20210657	9·20220739
992	9·20281211	9·20291286	9·20301360	9·20311433	9·20321505
993	9·20381916	9·20391980	9·20402044	9·20412107	9·20422169
994	9·20482519	9·20492574	9·20502628	9·20512681	9·20522732
995	9·20583022	9·20593066	9·20603110	9·20613153	9·20623194
996	9·20683423	9·20693458	9·20703491	9·20713524	9·20723556
997	9·20783724	9·20793749	9·20803772	9·20813795	9·20823816
998	9·20883925	9·20893939	9·20903953	9·20913965	9·20923977
999	9·20984025	9·20994029	9·21004033	9·21014035	9·21024037

TABLE VII.

FOR

THE REDUCTION OF CERTAIN

DIFFERENTIAL COEFFICIENTS TO DECIMALS, &c.

Coefficiet.	Dec. Fraction.	Logarithm.	Coefficient.	Dec. Fraction.	Logarithm.
$\frac{1}{2}$	0·5000000000	0·6989700−1	$\frac{1}{2.3}$	0·1666666667	0·2218487−1
$\frac{1}{2.4}$	0·1250000000	0·0969100−1	$\frac{1.3}{2.4.5}$	0·0750000000	0·8750613−2
$\frac{1.3}{2.4.6}$	0·0625000000	0·7958800−2	$\frac{1.3.5}{2.4.6.7}$	0·0446428571	0·6497519−2
$\frac{1.3.5}{2.4.6.8}$	0·0390625000	0·5917600−2	$\frac{1.3.5.7}{2.4.6.8.9}$	0·0303819444	0·4826156−2
$\frac{1.3.5.7}{2.4....10}$	0·0273437500	0·4368653−2	$\frac{1.3.5.7.9}{2.4.6.10.11}$	0·0223721591	0·3497078−2
$\frac{1.3....9}{2.4....12}$	0·0205078125	0·3119212−2	$\frac{1.3...9.11}{2.4...12.13}$	0·0173527644	0·2393687−2
$\frac{1.3....11}{2.4....14}$	0·0161132812	0·2071840−2	$\frac{1.3...11.13}{2.4...14.15}$	0·0139648437	0·1450360−2
$\frac{1.3....13}{2.4....16}$	0·0130920410	0·1170073−2	$\frac{1.3...13.15}{2.4...16.17}$	0·0115518009	0·0626497−2
$\frac{1.3....15}{2.4....18}$	0·0109100342	0·0378260−2	$\frac{1.3...15.17}{2.4...18.19}$	0·0097616095	0·9895214−3
$\frac{1.3....17}{2.4....20}$	0·0092735291	0·9672450−3	$\frac{1.3...17.19}{2.4...20.21}$	0·0083903358	0·9237794−3
$\frac{1}{2}$	0·5000000000	0·6989700−1	$\frac{1}{2.3}$	0·1666666667	0·2218487−1
$\frac{1.3}{2.4}$	0·3750000000	0·5740313−1	$\frac{1}{2.4.5}$	0·0250000000	0·3979400−2
$\frac{1.3.5}{2.4.6}$	0·3125000000	0·4948500−1	$\frac{1.3}{2.4.6.7}$	0·0089285714	0·9507819−3
$\frac{1.3.5.7}{2.4.6.8}$	0·2734375000	0·4368653−1	$\frac{1.3.5}{2.4.6.8.9}$	0·0043402778	0·6375174−3
$\frac{1.3....9}{2.4....10}$	0·2460937500	0·3911005−1	$\frac{1.3.5.7}{2.4...10.11}$	0·0024857954	0·3954754−3
$\frac{1.3....11}{2.4....12}$	0·2255859375	0·3533119−1	$\frac{1.3.5.7.9}{2.4...12.13}$	0·0015775251	0·1979763−3
$\frac{1.3....13}{2.4....14}$	0·2094726562	0·3201273−1	$\frac{1.3...9.11}{2.4...14.15}$	0·0010742187	0·0310926−3
$\frac{1.3....15}{2.4....16}$	0·1963806152	0·2930986−1	$\frac{1.3...11.13}{2.4...16.17}$	0·0007701201	0·8865584−4
$\frac{1.3....17}{2.4....18}$	0·1854705811	0·2682750−1	$\frac{1.3...13.15}{2.4...18.19}$	0·0005742123	0·7590725−4
$\frac{1.3....19}{2.4....20}$	0·1761970520	0·2459986−1	$\frac{1.3...15.17}{2.4...20.21}$	0·0004415966	0·6450257−4

TABLE VIII.

CONTAINING

VARIOUS FORMULÆ

RELATING TO THE DOCTRINES OF

EQUATIONS, SERIES, FLUXIONS, FLUENTS,

&c. &c. &c.

ALGEBRAICAL FORMULÆ, &c.

EXTRACTION OF ROOTS.

I. Let n represent the index of the root,
x the number of which the root is required,
r an approximate value of $\sqrt[n]{x}$,
which may be found by trial, or otherwise, as near as convenient, and either in excess or defect; then will

$$1.\ \sqrt[n]{x} = r + \frac{2r(x-r^n)}{(n+1)r+(n-1)x}\ \textit{very nearly.}$$

And using this new approximate value in the same way, another value may be found still nearer; and so on to any degree of accuracy required.

This general formula resolves itself into the following particular ones; viz.

$$2.\ \sqrt{x} = r + \frac{2r(x-r^2)}{3r^2+x} \qquad 5.\ \sqrt[5]{x} = r + \frac{r(x-r^5)}{3r^5+2x}$$
$$3.\ \sqrt[3]{x} = r + \frac{r(x-r^3)}{2r^3+x} \qquad 6.\ \sqrt[6]{x} = r + \frac{2r(x-r^6)}{7r^6+5x}$$
$$4.\ \sqrt[4]{x} = r + \frac{2r(x-r^4)}{5r^4+3x} \qquad 7.\ \sqrt[7]{x} = r + \frac{r(x-r^7)}{4r^7+3x}$$

&c. &c.

By the Binomial Theorem.

II. Let $(a+b)$ represent any binomial, and n the index of the root or power, which may be either positive or negative; integral or fractional; then will

$$(a+b)^n =$$

$$(1.)\ a^n + \frac{n}{1}a^{n-1}b + \frac{n(n-1)}{1.2}a^{n-2}b^2 + \frac{n(n-1)(n-2)}{1.2.3}a^{n-3}b^3 + \text{&c.}$$

If b be negative, the odd powers of b will also be negative; that is,

$$(a-b)^n =$$

$$(2.)\ a^n - \frac{n}{1}a^{n-1}b + \frac{n(n-1)}{1.2}a^{n-2}b^2 - \frac{n(n-1)(n-2)}{1.2.3}a^{n-3}b^3 + \text{&c.}$$

Otherwise: let $\frac{m}{n}$ represent the index, and put $\frac{b}{a} = o$, also,

let A, B, C, D, &c. represent the 1st, 2d, 3d, &c. terms of the series, with their proper signs; then will

$$(a+b)^{\frac{m}{n}} = (a+aQ)^{\frac{m}{n}} =$$

$$(3.)\ \overset{A}{a^{\frac{m}{n}}} + \overset{B}{\frac{m}{n}}AQ + \frac{m-n}{2n}\overset{C}{BQ} + \frac{m-2n}{3n}\overset{D}{CQ} + \frac{m-3n}{4n}DQ, + \&c.$$

which is by far the most convenient practical form in the case of fractional or negative indices.

ROOTS OF EQUATIONS.

QUADRATIC EQUATIONS.

III. Let $x^2 + ax - b = 0$, or $x^2 + ax = b$, represent any quadratic equation, a and b, being either positive or negative; then will

$$x = \frac{-a}{2} \pm \sqrt{\left(\frac{a^2}{4} + b\right)}.$$

But if a and b, independent of the sign by which they are preceded, be always supposed positive; then this general formula resolves itself into the four following particular ones, viz.

1. $x^2 + ax - b = 0$, where $x = \frac{-a}{2} \pm \sqrt{\left(\frac{a^2}{4} + b\right)}$.
2. $x^2 - ax - b = 0$, $x = \frac{a}{2} \pm \sqrt{\left(\frac{a^2}{4} + b\right)}$.
3. $x^2 - ax + b = 0$, $x = \frac{a}{2} \pm \sqrt{\left(\frac{a^2}{4} - b\right)}$.
4. $x^2 + ax + b = 0$, $x = \frac{-a}{2} \pm \sqrt{\left(\frac{a^2}{4} - b\right)}$.

By Sines and Tangents.

IV.

1. $x^2 + px = q$.

Put $\frac{2}{p}\sqrt{q} = \tan. z$; then

$$x = \begin{cases} + \sqrt{q} \times \tan. \frac{1}{2}z. \\ \text{or,} \\ - \sqrt{q} \times \cot. \frac{1}{2}z. \end{cases} \quad \text{or } x = \begin{cases} +\frac{1}{2}p\ (\sec. z - 1) \\ -\frac{1}{2}p\ (\sec. z + 1) \end{cases}$$

2. $x^2 - px = q$.

Put $\frac{2}{p}\sqrt{q} = \tan. z$; then

$$x = \begin{cases} + \sqrt{q} \times \cot. z, \\ \text{or,} \\ - \sqrt{q} \times \tan. z. \end{cases} \quad \text{or } x = \begin{cases} +\frac{1}{2}p\ (\sec. z + 1) \\ -\frac{1}{2}p\ (\sec. z - 1) \end{cases}$$

3. $x^2 + px = -q$.

Put $\frac{2}{p}\sqrt{q} = \sin. z$; then

$$x = \begin{cases} - \sqrt{q} \times \tan. \frac{1}{2}z, \\ \text{or} \\ - \sqrt{q} \times \cot. \frac{1}{2}z. \end{cases} \quad \text{or } x = \begin{cases} -\frac{1}{2}p\ (1 - \cos. z) \\ -\frac{1}{2}p\ (1 + \cos. z) \end{cases}$$

4. $x^2 - px = -q$,

Put $\frac{2}{p}\sqrt{q} = \text{sin. } z$; then

$$x = \begin{cases} + \sqrt{q} \times \text{tan. } \frac{1}{2}z, \\ \text{or,} \\ + \sqrt{q} \times \text{cot. } \frac{1}{2}z. \end{cases} \qquad \text{or } x = \begin{cases} + \frac{1}{2}p\,(1 - \text{cos. } z) \\ + \frac{1}{2}p\,(1 + \text{cos. } z) \end{cases}$$

CUBIC EQUATIONS.

By Cardan's Rule.*

V. Let $x^3 + ax - b = 0$, or $x^3 + ax = b$, represent any cubic equation wanting its second term †; and in which a and b, may be either positive or negative.

1. $x = \sqrt[3]{\left\{\frac{b}{2} + \sqrt{(\frac{b^2}{4} + \frac{a^3}{27})}\right\}} + \sqrt[3]{\left\{\frac{b}{2} - \sqrt{(\frac{b^2}{4} + \frac{a^3}{27})}\right\}}$

2. $x = \sqrt[3]{\left\{\frac{b}{2} + \sqrt{(\frac{b^2}{4} + \frac{a^3}{27})}\right\}} - \frac{\frac{1}{3}a}{\sqrt[3]{\left\{\frac{b}{2} + \sqrt{(\frac{b^2}{4} + \frac{a^3}{27})}\right\}}}$

Which latter form is frequently the most convenient, as it requires only one extraction of the cube root, whereas the former requires two.

When a is negative, that is, when the equation is $x^3 - ax = b$, the preceding formula becomes

3. $x = \sqrt[3]{\left\{\frac{b}{2} + \sqrt{(\frac{b^2}{4} - \frac{a^3}{27})}\right\}} + \sqrt[3]{\left\{\frac{b}{2} - \sqrt{(\frac{b^2}{4} - \frac{a^3}{27})}\right\}}$

and here, when $\frac{a^3}{27} > \frac{b^2}{4}$, both branches of the root become imaginary, and the equation is said to be of the irreducible case; no solution being then obtainable by this rule, except in those cases in which the cube root of each of these branches can be found in other binomial surds, which when possible is done by the following formulæ.

(1.) $\sqrt[3]{(a \pm \sqrt{b})} = x + \sqrt{y}$.

(2.) $x^3 - \frac{3}{4}x^2\sqrt[3]{(a^2 - b)} - \frac{1}{4}a = 0$.

(3.) $y = x^2 - \sqrt[3]{(a^2 - b)}$.

By Sines and Tangents.

VI. In this case it is necessary to separate the above general

* This rule is due to Tartaglia, though generally ascribed to Cardan, the former having communicated it to the latter in the year 1539.

† The second term of a cubic equation may be taken away by the following formulæ.

Let $y^3 + py^2 + qy + r = 0$,

Assume $y = \frac{x - p}{3}$, $a = 9q - 3p^2$, and $b = 9pq - 2p^3 - 27r$,

so shall $x^3 + ax - b = 0$, be the transformed equation required, which under this form will have integral coefficients.

formula into the following particular ones, according as a and b are positive or negative, as follows, viz.

Form. 1. $x^3 + ax - b = 0$.
2. $x^3 + ax + b = 0$.
3. $x^3 - ax - b = 0$.
4. $x^3 - ax + b = 0$.

1. *Solution of Form.* 1. $x^3 + ax - b = 0$.

Put $\frac{b}{2}\left(\frac{3}{a}\right)^{\frac{3}{2}} = \text{tan. } z$, and $\sqrt[3]{\text{tan. } (45° - \frac{1}{2}z)} = \text{tan. } u$.

Then $x = 2\sqrt{\frac{a}{3}} \times \text{cot. } 2u$.

2. *Solution of Form.* 2. $x^3 + ax + b = 0$.

Put $\frac{b}{2}\left(\frac{3}{a}\right)^{\frac{3}{2}} = \text{tan. } z$, and $\sqrt[3]{\text{tan. } (45° - \frac{1}{2}z)} = \text{tan. } u$.

Then will $x = -2\sqrt{\frac{a}{3}} \times \text{cot. } 2u$.

3. *Solution of Form.* 3. $x^3 - ax - b = 0$.

This form resolves itself into two cases, according as $\frac{2}{b}\left(\frac{a}{3}\right)^{\frac{3}{2}}$ is less or greater than 1.

In the first case, put $\frac{2}{b}\left(\frac{a}{3}\right)^{\frac{3}{2}} = \text{cos. } z$, and $\sqrt[3]{\text{tan. } (45° - \frac{1}{2}z)} = \text{tan. } u$.

Then will $x = 2\sqrt{\frac{a}{3}} \times \text{cosec. } 2u$.

In the second case, put $\frac{b}{2}\left(\frac{3}{a}\right)^{\frac{3}{2}} = \text{cos. } z$, then has x the three following values, viz.

1. $x = +2\sqrt{\frac{a}{3}} \times \text{cos. } \frac{z}{3}$.
2. $x = -2\sqrt{\frac{a}{3}} \times \text{cos. } (60° + \frac{z}{3})$.
3. $x = -2\sqrt{\frac{a}{3}} \times \text{cos. } (60° - \frac{z}{3})$.

4. *Solution of Form.* 4. $x^3 - ax + b = 0$.

This form has also two cases, according as $\frac{2}{b}\left(\frac{a}{3}\right)^{\frac{3}{2}}$ is less or greater than 1.

In the first case, put $\frac{2}{b}\left(\frac{a}{3}\right)^{\frac{3}{2}} = \text{cos. } z$, and $\sqrt[3]{\text{tan. } (45° - \frac{1}{2}z)} = \text{tan. } u$.

Then will $x = -2\sqrt{\frac{a}{3}} \text{ cos. } 2u$.

In the second case, put $\frac{b}{2}\left(\frac{3}{a}\right)^{\frac{3}{2}} = \text{cos. } z$, then has x the three following values.

1. $x = -2\sqrt{\frac{a}{3}} \times \text{cos. } \frac{z}{3}$.
2. $x = +2\sqrt{\frac{a}{3}} \times \text{cos. } (60° + \frac{z}{3})$.
3. $x = +2\sqrt{\frac{a}{3}} \times \text{cos. } (60° - \frac{z}{3})$.

The two latter cases of forms 3 and 4, belong to the irreducible case, each of which gives three real roots or values of x, whereas the other forms have each only one real root. See the *Introduction.*

By Infinite Series.

VII. Let $x^3 + ax = b$, represent any cubic equation, in which a and b may be each either positive or negative.

Assume $\frac{2b}{\sqrt{\{2(27b^2 + 4a^3)\}}} = \varphi$, and $\frac{27b^2}{27b^2 + 4a^3} = \pi$, then

1. $$\begin{cases} x = \varphi \times \left\{1 + \frac{2.5}{6.9}\pi + \frac{2.5.8.11}{6.9.12.15}\pi^2 + \frac{2.5\ldots17}{6.9\ldots21}\pi^3 + \&c.\right\} \\ \text{or,} \\ x = \varphi \times \left\{1 + \frac{2.5}{6.9}\pi A + \frac{8.11}{12.15}\pi B + \frac{14.17}{18.21}\pi C + \&c.\right\} \end{cases}$$

in which last form A, B, C, &c. represent the preceding terms.

Again, assume $2\sqrt[3]{\frac{b}{2}} = \varphi$, and $\frac{27b^2 + 4a^3}{27b^2} = \pi$, then

2. $$\begin{cases} x = \varphi \times \left\{1 - \frac{2}{3.6}\pi - \frac{2.5.8}{3.6.9.12}\pi^2 - \frac{2.5\ldots14}{3.6\ldots18}\pi^3 - \&c.\right\} \\ \text{or,} \\ x = \varphi \times \left\{1 - \frac{2}{3.6}\pi A - \frac{5.8}{9.12}\pi B - \frac{11.14}{15.18}\pi C - \&c.\right\} \end{cases}$$

In which also A, B, C, &c. are the preceding terms.

Both these series are correct analytical expressions for the value of x in the general cubic equation $x^3 + ax = b$, but they are not equally commodious for the purpose of solution.

The former must be used in all cases when a is positive; as also when a is negative, and $4a^3$ *greater* than $54b^2$, and the latter when a is negative, and $4a^3$ *less* than $54b^2$; because then π in both cases will be less than unity, and the series will therefore be converging ones.

BIQUADRATIC EQUATIONS.

By Simpson's Rule.*

VIII. Let $x^4 + ax^3 + bx^2 + cx + d = 0$, be any equation of the 4th degree, in which a, b, c, d may be any numbers at pleasure, positive, negative, or zero.

Find the values of p, q, and r by means of the three equations.

$$8p^3 - 4bp^2 + (2ac - 8d)\,p - a^2d + 4bd - c^2 = 0.$$

$$q = \sqrt{(\tfrac{1}{4}a^2 + 2p - b)}.$$

$$r = \frac{ap - c}{2q}, \text{ or } r = \sqrt{(p^2 - d)}.$$

* This rule was only generalized by Simpson, it is originally due to Ferrari, though commonly ascribed to Bombelli.

Then will the four roots of the proposed equation be contained in the following formulæ.

$$\begin{cases} x = -\frac{\frac{1}{2}a-q}{2} \pm \sqrt{\left\{\left(\frac{\frac{1}{2}a-q}{2}\right)^2 + r - p.\right\}} \\ x = -\frac{\frac{1}{2}a+q}{2} \pm \sqrt{\left\{\left(\frac{\frac{1}{2}a+q}{2}\right)^2 - r - p.\right\}} \end{cases}$$

By Des Cartes's Rule.

IX. Let $x^4 + ax^2 + bx + c = 0$, be any biquadratic equation wanting its second term.

Find the value of y in the double cubic equation

$$y^6 + 2ay^4 + (a^2 - 4c)y^2 - b^2 = 0,$$

then will the four values of x be comprised in the formulæ

$$\begin{cases} x = \frac{1}{2}y \pm \sqrt{(-\frac{1}{4}y^2 - \frac{1}{2}a - \frac{b}{2y}.)} \\ x = -\frac{1}{2}y \pm \sqrt{(-\frac{1}{4}y^2 - \frac{1}{2}a + \frac{b}{2y}.)} \end{cases}$$

By Euler's Rule.

X. Let $x^4 + ax^2 + bx + c = 0$, be any biquadratic equation wanting its second term, a, b, and c, being any numbers positive or negative, or zero.

Find the three roots of the cubic equation

$$y^3 + 2a\,y^2 + (a^2 + 4c)\,y = b^2,$$

which let be p, q, and r.

Then will the four values of x in the original equation be expressed as follows:

When b *is negative.*

1st root	$x = \frac{1}{2}(+\sqrt{p} + \sqrt{q} + \sqrt{r})$.
2d	$x = \frac{1}{2}(+\sqrt{p} - \sqrt{q} - \sqrt{r})$.
3d	$x = \frac{1}{2}(-\sqrt{p} + \sqrt{q} - \sqrt{r})$.
4th	$x = \frac{1}{2}(-\sqrt{p} - \sqrt{q} + \sqrt{r})$.

When b *is positive.*

1st root	$x = \frac{1}{2}(+\sqrt{p} + \sqrt{q} - \sqrt{r})$.
2d	$x = \frac{1}{2}(+\sqrt{p} - \sqrt{q} + \sqrt{r})$.
3d	$x = \frac{1}{2}(-\sqrt{p} + \sqrt{q} + \sqrt{r})$.
4th	$x = \frac{1}{2}(-\sqrt{p} - \sqrt{q} - \sqrt{r})$.

EQUATIONS IN GENERAL.

By Approximation. 1st Method.

XI. Let $x^n + ax^{n-1} + bx^{n-2} + cx^{n-3} + d\,x^{n-4} + w$, &c. $= 0$, be any general equation, in which a, b, c, d, &c. are any num-

bers positive or negative, or zero; then r being an approximate value, we have

1. $x = \frac{(n-1)r^n + (n-2)ar^{n-1} + (n-3)br^{n-2} + (n-4)cr^{n-3} + \&c.}{nr^{n-1} + (n-1)ar^{n-2} + (n-2)br^{n-3} + (n-3)cr^{n-4} + \&c.}$ nearly,

which general form renders itself into the following particular ones, viz.

Equations of the 3d degree.

2. $x^3 + ax^2 + bx + c = 0;$
$$x = \frac{2r^3 + ar^2 - c}{3r^2 + 2ar + b}.$$

Equations of the 4th degree.

3. $x^4 + ax^3 + bx^2 + cx + d = 0.$
$$x = \frac{3r^4 + 2ar^3 + br^2 - d}{4r^3 + 3ar^2 + 2br + c}.$$

&c. &c.

By 2d Method.

XII. Let $x^n + ax^{n-1} + bx^{n-2} + cx^{n-3} + dx^{n-4} + \&c. = w$, be any general equation, as before; and r an approximate value of x: then making

$$r^n + ar^{n-1} + br^{n-2} + cr^{n-3} + dr^{n-4} + \&c. = v$$

We shall have

1. $x = r + \frac{(w-v)\,2r}{(n-1)w + (n+1)r^n + (n-1)ar^{n-1} + (n-3)br^{n-2} + \&c.}$

Or,

2. $x = r + \frac{(w-v)2r}{(n-1)v + (n+1)r^n + (n-1)ar^{n-1} + (n-3)br^{n-2} + \&c.}$

The first formula being applicable to the cases in which r is greater than unity, and the second to those in which it is less.

These general formulæ resolve themselves into the following particular ones; viz.

Equations of the 3d degree.

2. $x^3 + ax^2 + bx = w.$
$$x = r + \frac{(w-v)\,r}{w \text{ or } v + 2r^3 + ar^2}.$$

Equations of the 4th degree.

3. $x^4 + ax^3 + bx^2 + cx = w.$
$$x = r + \frac{(w-v)\,2r}{3w \text{ or } 3v + 5r^4 + 3ar^3 + br^2 - cr.}$$

Equations of the 5th degree.

4. $x^5 + ax^4 + bx^3 + cx^2 + dx = w.$
$$x = r + \frac{(w-v)\,r}{2w \text{ or } 2v + 3r^5 + 2ar^4 + br^3 - dr.}$$

XIII. INDETERMINATE EQUATIONS.

FORM. 1. Equation, $ax - by = \pm c$.

$$\begin{cases} \text{General value of } x = mb \pm cq. \\ \ldots\ldots\ldots\ldots\ y = ma \pm cp. \end{cases}$$

In which expressions m is indeterminate, and the values of p and q result from the solution of the equation $ap - bq = \pm 1$.

FORM. 2. Equation, $ax + by = c$.

$$\begin{cases} \text{General value of } x = cq - mb. \\ \ldots\ldots\ldots\ldots\ y = ma - cp. \end{cases}$$

$$\text{Number of solutions} = \frac{cq}{b} - \frac{cp}{a}.$$

The quantities p and q being ascertained, as above; also m indeterminate.

FORM. 3. Equation, $ax + by + cz = d$.

$$\begin{cases} \text{Gen. val. of } x = (d - cz)q - mb. \\ \ldots\ldots\ldots\ y = ma - (d - cz)p. \end{cases}$$

The quantities p and q being found, as above; also m indeterminate, and z any integer $< \frac{d}{c}$.

FORM. 4. Equation, $x^2 - ay^2 = z^2$.

$$\begin{cases} \text{Gen. val. of } x = p^2 + aq^2. \\ \ldots\ldots\ldots\ y = 2pq. \\ \ldots\ldots\ldots\ z = p^2 - aq^2. \end{cases}$$

In which expressions a is given, and p and q are indeterminates, that may be assumed at pleasure.

FORM. 5. Equation, $x^2 + ay^2 = z^2$.

$$\begin{cases} \text{Gen. val. of } x = p^2 - aq^2, \\ \ldots\ldots\ldots\ y = 2pq, \\ \ldots\ldots\ldots\ z = p^2 + aq^2, \end{cases}$$

a being given, and p and q indeterminates, as above.

FORM. 6. Equation, $ax^2 + bxy + y^2 = z^2$.

$$\begin{cases} \text{Gen. val. of } x = 2pq + bq^2, \\ \ldots\ldots\ldots\ y = p^2 - aq^2, \\ \ldots\ldots\ldots\ z = p^2 + bpq + aq^2, \end{cases}$$

where p and q are indeterminates, and a and b given quantities.

FORM. 7. Equation, $ax^2 + bx = z^2$.

$$\begin{cases} \text{Gen. val. of } x = \dfrac{bq^2}{p^2 - aq^2}, \\ \ldots\ldots\ldots\ldots\ z = \dfrac{bpq}{p^2 - aq^2}, \end{cases}$$

where a and b are known quantities, and p and q indeterminates.

FORM. 8. Equation, $m^2x^2 + bx + c = z^2$.

$$\begin{cases} \text{Gen. val. of } x = \dfrac{p^2 - cq^2}{bq^2 - 2mpq}, \\ \ldots\ldots\ldots\ldots z = \dfrac{mp^2 + mcq^2 - bpq}{bq^2 - 2mpq}, \end{cases}$$

where m, b, and c, are any given numbers, and p and q indeterminates.

FORM. 9. Equation, $ax^2 + bx + m^2 = z^2$.

$$\begin{cases} \text{Gen. val. of } x = \dfrac{bq^2 - 2mpq}{p^2 - aq^2}, \\ \ldots\ldots\ldots\ldots z = \dfrac{mp^2 + amq^2 - bpq}{p^2 - aq^2}, \end{cases}$$

where m, a, b are known, and p and q indeterminates.

FORM. 10. Equation, $x^2 - Ny^2 = \pm 1$.

$$\begin{cases} \text{Gen. val. of } x = \dfrac{(p + q\sqrt{N})^m + (p - q\sqrt{N})^m}{2}, \\ \ldots\ldots\ldots\ldots y = \dfrac{(p + q\sqrt{N}) - (p - q\sqrt{N})^m}{2\sqrt{N}}, \end{cases}$$

where p and q arise from the equation $p^2 - Nq^2 = \pm 1$, and m is indeterminate; except that it must be even or odd as the case requires.

FORM. 11. Equation, $x^2 - Ny^2 = \pm A$.

$$\begin{cases} \text{Gen. val. of } x = pm \pm Nqn. \\ \ldots\ldots\ldots\ldots y = pn \pm qm. \end{cases}$$

The values of m and n being found from the equation $m^2 - Nn^2 = \pm A$, and p and q from the equation $p^2 - Nq^2 = \pm 1$.

FORM. 12. Equation, $ax^3 + bx^2 + cx + f^2 = z^2$.

$$\begin{cases} \text{Particular val. of } x = \dfrac{c^2 - 4bf^2}{4af^2}, \\ \text{Or.}\ldots\ldots\ldots\ldots x = \dfrac{(8af^4 - 4bf^2c + c^3)8f^2}{(4bf^2 - c^2)^2}, \end{cases}$$

where all the quantities a, b, c, and f, are given.

FORM. 13. Equation, $ax^4 + bx^3 + cx^2 + dx + f^2 = z^2$.

$$\left\{\text{Particular val. of } x = \frac{(8bf^4 - 4cdf^2 + d^3)8f^2}{16c^2f^4 - 64af^6 - 8cd^2f^2 + d^4},\right.$$

where a, b, c, &c. are all known quantities.

FORM. 14. Equation, $m^2x^4 + bx^3 + cx^2 + dx + e = z^2$.

$$\left\{\text{Particular val. of } x = \frac{16c^2m^4 - 64em^6 - 8cb^2m^2 + b^4}{(8dm^4 - 4cbm^2 + b^3)8m^2},\right.$$

where also m, b, c, &c. are all known quantities.

FORM. 15. Equation, $m^2x^4 + bx^3 + cx^2 + dx + f^2 = z^2$.

$$\begin{cases}\text{Particular val. of } x = \dfrac{d^2 \pm 8mf^3 - 4cf^2}{4bf^2 \mp 4mdf}.\\ \text{Or} \ldots\ldots\ldots\ldots x = \dfrac{4m^2d \pm 4mbf}{b^2 \mp 8m^3f - 4m^2c}.\end{cases}$$

In these expressions m, b, c, &c. are known quantities; and with regard to the ambiguous sign, it must be observed, that when it is taken + in the numerator, it must be − in the denominator, and the contrary.

FORM. 16. Equation, $ax^3 + bx^2 + cx + f^3 = z^3$.

$$\left\{\text{Particular val. of } x = \frac{(c^2 - 3bf^3)9f^3}{27af^6 - c^3},\right.$$

a b, c, &c. being known quantities.

FORM. 17. Equation, $m^3x^3 + bx^2 + cx + d = z^3$.

$$\left\{\text{Particular val. of } x = \frac{b^3 - 27dm^6}{(3cm^3 - b^2)9m^3},\right.$$

a, b, c, &c. being given quantities, as above.

FORM. 18. Equation, $m^3x^3 + bx^2 + cx + f^3 = z^3$.

$$\begin{cases}\text{Particular val. of } x = \dfrac{(c^2 - 3bf^3)9f^3}{27m^3f^6 - c^3}.\\ \text{Or} \ldots\ldots\ldots\ldots x = \dfrac{b^3 - 27f^3m^6}{(3cm^3 - b^2)9m^3}.\\ \text{Or} \ldots\ldots\ldots\ldots x = \dfrac{3mf^3 - c}{b - 3m^2f},\end{cases}$$

where also m, b, c, &c. are known quantities.

FORM. 19. Equation, $x^2 + axy + by^2 = z^2$.

$$\begin{cases}\text{Gen val. of } x = t^2 - btu^2 - abu^2,\\ \ldots\ldots\ldots y = 2tu + 2atu^2 + (a^2 - b)u^2,\\ \ldots\ldots\ldots z = t^2 + atu + bu^2,\end{cases}$$

where t and u may be assumed at pleasure.

FORM. 20. Equation, $x^2 + by^2 = z^3$.

$$\begin{cases} \text{Gen. val. of } x = t^3 - btu^2, \\ \ldots\ldots\ldots\ y = t^2 - bu^3, \\ \ldots\ldots\ldots\ z = t^2 + bu^3, \end{cases}$$

t and u being indeterminates, as above.

FORM. 21. Equation, $x^2 + by^2 = z^4$.

$$\begin{cases} \text{Gen. val. of } x = t^4 - 6bt^2u^2 + b^2u^4, \\ \ldots\ldots\ldots\ y = 4t^3u - 4btu^3, \\ \ldots\ldots\ldots\ z = t^2 + bu^2, \end{cases}$$

t and u being indeterminates, as above.

FORM. 22. Equation $x^2 + axy + by^2 = z^4$.

$$\begin{cases} \text{Gen. val. of } x = t^4 - 6bt^2u^2 - 4abtu^3 - (a^2b - b^2)u^4, \\ \ldots\ldots\ldots\ y = 4t^3u + 6at^2u^2 + 4(a^2 - b)tu^3 + (a^3 - 2ab)u^4. \\ \ldots\ldots\ldots\ z = t^2 + atu + bu^2, \end{cases}$$

where a and b are known quantities, and t and u indeterminates.

FORM. 23. Equation, $x^2 + by^2 = z^m$.

$$\begin{cases} \text{Gen. val. of } x = t^m - \beta t^{m-2}u^2b + \delta t^{m-4}u^4b^2 - \&c. \\ \ldots\ldots\ldots\ y = \alpha t^{m-1}u - \gamma t^{m-3}u^3b + \epsilon t^{m-5}u^5b^2, \&c. \\ \ldots\ldots\ldots\ z = t^2 + bu^2, \end{cases}$$

where t and u are indeterminates, and 1, α, β, γ, δ, &c. the coefficients of $(t + u)^m$.

FORM. 24. Equation, $x^3 + cy^3 = z^2$.

$$\begin{cases} \text{Gen. val. of } x = 4t^4 - 4ctu^3, \\ \ldots\ldots\ldots\ y = 8t^3u + cu^4, \\ \ldots\ldots\ldots\ z = t^3 + cu^3, \end{cases}$$

where t and u are indeterminates.

FORM. 25. Equation, $x^3 + ax^2y + bxy^2 + cy^3 = z^2$.

$$\begin{cases} \text{Particular val. of } t = -\dfrac{u^2 + 2auw + (a^2 - b)w^2}{2w}. \end{cases}$$

$$\begin{cases} \text{Gen. val. of } x = t^2 + 2cuw + acw^2, \\ \ldots\ldots\ldots\ y = 2tu - 2buw - (ab - c)w^2, \end{cases}$$

where u and w are indeterminates, on which also depends the value of t.

INTEREST AND ANNUITIES.

Simple Interest.

XIV. Let p represent the principal; r the rate of interest; n the number of years; and s the amount; then

$$s = p(1 + rn) \qquad p = \frac{s}{1 + rn}.$$

$$n = \frac{s - p}{pr} \qquad r = \frac{s - p}{pn}.$$

And the same formulæ will apply to the discount of money, by taking p for the present value, and s for the sum due; r and n denoting the same as above.

Compound Interest.

XV. Let p represent the principal, φ the interest of 1*l.* for the time of the first payment, whether yearly, half-yearly, or quarterly; n the number of payments, and s the amount; then

$$s = p(1+\varphi)^n \qquad p = s(1+\varphi)^{-n}.$$

$$n = \frac{\log. s - \log. p}{\log.(1+\varphi)} \qquad \varphi = \left(\frac{s}{p}\right)^{\frac{1}{n}} - 1.$$

And the same formulæ will obtain in finding the discount of money at compound interest, by taking p to represent the *present worth*, and s the sum due; φ and n being the same as above.

Annuities at Simple Interest.

XVI. Let s be the amount of the annuity; a the annuity or periodical payment, n the number of payments, and r the interest of 100*l.* for the time of the first payment; then

$$s = a\left\{n + \frac{n(n-1)}{2}r\right\}$$

$$a = \frac{2s}{2n + n(n-1)r}.$$

$$r = \frac{2\left(\frac{s}{a} - n\right)}{n(n-1)}.$$

$$n = \frac{\sqrt{\left\{(2-r)^2 + 8r\frac{s}{a}\right\}} - (2+r)}{2r}$$

Annuities at Compound Interest.

XVII. Let s represent the amount, a the annuity or periodic payment, n the number of payments, and φ the interest of 1*l.* for the time of the first payment; then

$$s = a \cdot \frac{(1+\varphi)^n - 1}{\varphi},$$

$$a = s \cdot \frac{\varphi}{(1+\varphi)^n - 1},$$

$$n = \frac{\log.\left(1 + \frac{s}{a}\varphi\right)}{\log.(1+\varphi)},$$

$$\varphi = \frac{\{12 + (n+1)\beta\}\beta}{12 + 2(n+1)\beta},$$

where $\beta = \left(\frac{s}{an}\right)^{\frac{2}{n-1}} - 1.$

And the same formulæ will apply in finding the present value of an annuity, by taking p to represent the present worth.

Reversionary Payments.

XVIII. Let p represent the present value; a the annuity or periodic payment; n the number of such periods during which the annuity is continued; ν the number of such periods during which it is deferred; φ the interest of 1*l.* for the time of the first payment.

$$p = a \cdot \frac{(1+\varphi)^{-\nu} - 1(1+\varphi)^{-(\nu+n)}}{\varphi},$$

$$a = p \cdot \frac{\varphi}{(1+\varphi)^{-\nu} - (1+\varphi)^{-(\nu+n)}},$$

$$n = \frac{\text{co. log.} \left\{1 - \frac{p}{a}\varphi \cdot (1+\varphi)^{\nu}\right\}}{\log.(1+\varphi)},$$

$$\nu = \frac{\log. \left\{1 - (1+\varphi)^{-n}\right\} - \log. \frac{p}{a} \cdot \varphi}{\log.(1+\varphi)},$$

$$\varphi = \frac{\{12\delta - (n^2-1)\beta\}\beta}{12\delta - 2(n^2-1)\beta},$$

where $\delta = 2\nu + n + 1$, and $\beta = \left(\frac{an}{p}\right)^{\frac{2}{\delta}} - 1$.

When the reversion is a perpetuity, then n is infinite, and all those quantities into which the negative powers of n enter, vanish out of the expression, which therefore become

$$p = a \cdot \frac{(1+\varphi)^{-\nu}}{\varphi}. \qquad \nu = \frac{\text{co. log.} \left(\frac{p}{a}\varphi\right)}{\log.(1+\varphi)},$$

$$a = p\varphi(1+\varphi)^{\nu}. \qquad \varphi = \frac{\{6 + (5\nu+1)\beta\}\beta}{6 + 4(2\nu+1)\beta},$$

where $\beta = \left(\frac{p + a\nu}{p}\right)^{\frac{1}{\nu}} - 1$. *

* For an investigation of these formulæ, the reader is referred to Baily's Treatise on the "Doctrine of Interest and Annuities."

SUMMATION OF SERIES.

Arithmetical Progression.

XIX. Let $a + (a + d) + (a + 2d) + (a + 3d)$, &c. represent any arithmetical progression; then n being put to denote the number of terms, we have

1. nth term $= a + (n - 1)\,d$.
2. sum of n terms $= \left\{2a + (n - 1)d\right\} \times \frac{n}{2}$.

If it be a decreasing series, so that d is negative, then

3. nth term $= a - (n - 1)d$.
4. sum of n terms $= \left\{2a - (n - 1)d\right\} \times \frac{n}{2}$.

If we make $l = a + (n - 1)d$, the last term, then we have the following relations between those quantities, viz.

$$l = a + (n - 1)d.$$
$$a = l - (n - 1)d.$$
$$d = \frac{l - a}{n - 1}.$$
$$n = \frac{l - a}{d} + 1.$$

Any three of which, therefore, being given, the fourth is readily obtained.

Geometrical Progression.

XX. Let $a + ra + r^2a + r^3a + r^4a$, &c. represent any geometrical progression: then n being put to denote the number of terms, we have

1. nth term $= ar^{n-1}$.
2. sum of n terms $= \frac{r^n \sim 1}{r \sim 1} \times a$.

If r be a fraction, then putting $r = \frac{1}{r'}$, the same is more conveniently expressed as follows, viz.

3. sum of n terms $= \frac{(r'^n - 1)\,a}{(r' - 1)\,r'^{n-1}}$,

which when n is infinite, becomes

4. infinite sum $= \frac{r'a}{r' - 1}$.

Thus n terms of the series

$$1 + 2 + 4 + 8 + \text{&c.} = \frac{2^n - 1}{2 - 1} \times 1,$$

and n terms of the series

$$1 + \tfrac{1}{2} + \tfrac{1}{4} + \tfrac{1}{8} + \text{&c.} = \frac{(2^n - 1)}{(2 - 1)2^{n-1}},$$

and the infinite sum of the same, $= \frac{2}{2 - 1} = 2$.

XXI. *Figurate Numbers.*

	Gen. term.	Sum of n terms.
1. $1 + 2 + 3 \ldots$	n	$= \frac{n(n+1)}{1.2}$.
2. $1 + 3 + 6 \ldots$	$\frac{n(n+1)}{1.2}$	$= \frac{n(n+1)(n+2)}{1.2.3}$.
3. $1 + 4 + 10$	$\frac{n(n+1)(n+2)}{1.2.3}$	$= \frac{n(n+1)(n+2)(n+3)}{1.2.3.4}$.
4. $1 + 5 + 15$	&c.	&c.

Where the law of the terms is sufficiently obvious.

XXII. *Compound Figurates.*

	Inf. sum.
1. $1 + 2x + 3x^2 + 4x^3 +$ &c.	$= \frac{1}{(1-x)^2}$.
2. $1 + 3x + 6x^2 + 10x^3 +$ &c.	$= \frac{1}{(1-x)^3}$.
3. $1 + 4x + 10x^2 + 20x^3 +$ &c.	$= \frac{1}{(1-x)^4}$.
&c.	&c.

XXIII. *Reciprocals of Figurates.*

	Inf. sum.
1. $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} +$ &c.	$= \infty$
2. $1 + \frac{1}{3} + \frac{1}{6} + \frac{1}{10} +$ &c.	$= 2$
3. $1 + \frac{1}{4} + \frac{1}{10} + \frac{1}{20} +$ &c.	$= 1\frac{1}{2}$

4. Generally

$$1 + \frac{1}{n} + \frac{1.2}{n(n+1)} + \frac{1.2.3}{n(n+1)(n+2)} + \text{&c.} = \frac{n-1}{n-2}.$$

XXIV. *Polygonal Numbers.*

	Gen. term.	Sum of n terms.
1. $1 + 2 + 3 \ldots\ldots$	n	$= n + \frac{n(n-1)}{1.2}$.
2. $1 + 3 + 6 \ldots\ldots$	$\frac{n(n+1)}{1.2}$	$n + \frac{2n(n-1)}{1.2} + \frac{n(n-1)(n-2)}{1.2.3}$.
3. $1 + 4 + 9 \ldots\ldots$	$\frac{2n^2 - 0n}{1.2}$	$= n + \frac{3n(n-1)}{1.2} + \frac{2n(n-1)(n-2)}{1.2.3}$.
4. $1 + 5 + 12 \ldots\ldots$	$\frac{3n^2 - n}{1.2}$	$= n + \frac{4n(n-1)}{1.2} + \frac{3n(n-1)(n-2)}{1.2.3}$.

5. The general term being $\frac{(m-2)n^2 - (m-4)n}{1.2}$,

the sum of the series $= n + \frac{(m-1)(n-1)}{1.2} + \frac{(m-2)(n-1)(n-2)}{1.2.3}$.

XXV. *Powers of Arithmeticals.*

1. $a^2 + (a+d)^2 + (a+2d)^2 + (a+3d)^2 +$ &c.

$$\text{N} = \{a + (n-1)d\}^2$$

$$\text{S} = na^2 + n(n-1)ad + \frac{n}{6}(n-1)(2n-1)d^2$$

where N denotes the nth term, and S the sum of n terms.

2. $a^3 + (a+d)^3 + (a+2d)^3 + (a+3d)^3 + \&c.$
$N = \{a + (n-1)d\}^3$

$$S = na^3 + \frac{3n}{2}(n-1)a^2d + \frac{n}{2}(n-1)(2n-1)ad^2 + \frac{n^2}{4}(n-1)(n-1)d^3.$$

3. If in the series

$$a^m + (a+d)^m + (a+2d)^m + (a+3d)^m + \&c.$$

we substitute $a + (n-1)d = z$, we have for the sum of n terms,

$$S = \frac{z^{m+1} - a^{m+1}}{(m+1)d} + \tfrac{1}{2}(z^m + a^m).$$
$$+ \tfrac{1}{6} \cdot \frac{md}{2}(z^{m-1} - a^{m-1}).$$
$$- \tfrac{1}{30} \cdot \frac{m(m-1)(m-2)d^3}{2.3.4}(z^{m-3} - a^{m-3}).$$
$$+ \tfrac{1}{42} \cdot \frac{m(m-1)(m-2)(m-3)(m-4)d^5}{2.3.4.5.6}(z^{m-5} - a^{m-5}).$$
$$- \quad \&c. \qquad \&c.$$

In which formula the law of the literal part of the series is obvious, and may therefore be continued at pleasure; and as for the coefficients $+\frac{1}{6} - \frac{1}{30} + \frac{1}{42}$, &c. they are derived as follows.

Let φ_1, φ_3, φ_5, &c. represent the successive coefficients, then we have

$$\varphi_1 = \tfrac{1}{6}$$
$$\varphi_3 = \tfrac{1}{30} - 2\varphi_1$$
$$\varphi_5 = \tfrac{1}{42} - 3\varphi_3 - 5\varphi_1$$
$$\varphi_7 = \tfrac{1}{30} - 4\varphi_5 - 14\varphi_3 - 28\varphi_1$$
$$\varphi_9 = \tfrac{5}{22} - 5\varphi_7 - 30\varphi_5 - 42\varphi_3 - 15\varphi_1$$
$$\&c. \qquad \&c.$$

$$\varphi_n = \frac{n}{2n+4} - \frac{n+1}{2}\varphi_1 - \frac{(n+1)n(n-1)}{2.3.4}\varphi_3$$
$$- \frac{(n+1)n(n-1)(n-2)(n-3)}{2.3.4.5.6}\varphi_5$$
$$- \frac{(n+1)n(n-1)(n-2)(n-3)(n-4)(n-5)}{2.3.4.5.6.7.8}\varphi_7.$$
$$\&c. \qquad \&c.$$

From the preceding general formula, are readily deduced the following particular cases.

	Gen. term.	Sum of n terms.
$1^2 + 2^2 + 3^2 + 4^2 +$ &c.	n^2	$= \frac{n^3}{3} + \frac{n^2}{2} + \frac{n}{6}$.
$1^3 + 2^3 + 3^3 + 4^3 +$ &c.	n^3	$= \frac{n^4}{4} + \frac{n^3}{2} + \frac{n^2}{4}$.
$1^4 + 2^4 + 3^4 + 4^4 +$ &c.	n^4	$= \frac{n^5}{5} + \frac{n^4}{2} + \frac{n^3}{3} - \frac{n}{30}$.
$1^5 + 2^5 + 3^5 + 4^5 +$ &c.	n^5	$= \frac{n^6}{6} + \frac{n^5}{2} + \frac{5n^4}{12} - \frac{n^2}{12}$.
&c.		&c.

When the terms of the above series are multiplied by the successive powers of any quantity x, we have

	Inf. sum.
$1^2 + 2^2x + 3^2x^2 + 4^2x^3$ &c.	$\frac{1 + x}{(1 - x)^3}$.
$1^3 + 2^3x + 3^3x^2 + 4^3x^3$ &c.	$\frac{1 + 4x + x^2}{(1 - x)^4}$.
$1^4 + 2^4x + 3^4x^2 + 4^4x^3$ &c.	$\frac{1 + 11x + 11x^2 + x^3}{(1 - x)^5}$.
$1^5 + 2^5x + 3^5x^2 + 4^5x^3$ &c.	$\frac{1 + 26x + 66x^2 + 26x^3 + x^4}{(1 - x)^6}$.
&c.	&c.

XXVI. *Fractional Series.*

Let a, b, c, represent any numbers, and n the number of terms; then

1. $\frac{a}{b(b + c)} + \frac{a}{(b + c)(b + 2c)}$ + &c. $\frac{a}{\{b + (n-1)c\} \cdot \{b + nc\}}$.

   Sum of n terms $= \frac{na}{b(b + nc)}$.

   Inf. sum $= \frac{a}{bc}$.

2. $\frac{a}{b(b+c)(b+2c)} + \frac{a+e}{(b+c)(b+2c)(b+3c)} + \frac{a+2e}{(b+2c)(b+3c)(b+4c)}$

   + &c. $\frac{a + (n-1)e}{\{b+(n-1)c\}(b+nc)\{b+(n+1)c\}}$.

   $s = \frac{(2ab + ac - be)n + (ac + be)n^2}{2b(b + c)(b + nc)\{b + (n + 1)c\}}$.

3. $\frac{a}{a + 1} + \frac{a+b}{(a+1)(a+1+b)} + \frac{a+2b}{(a+1)(a+1+b)(a+1+2b)}$

   + &c. $\frac{a + (n-1)b}{(a+1)(a+1+b)\ldots\ldots(a+1+(n-1)b)}$.

   $s = 1 - \frac{1}{(a+1)(a+1+b)\ldots\ldots(a+1+(n-1)b)}$.

4. $a \cdot c + (a+b)cq + (a+2b)cq^2 + (a+3b)cq^3 + \&c.$
$$= \frac{ac(q^n-1) + nbcq^n}{q-1} - \frac{bcq(q^n-1)}{(q-1)^2}.$$

5. $\frac{a}{c} + \frac{a+b}{cq} + \frac{a+2b}{cq^2} + \frac{a+3b}{cq^3} + \&c.$
$$s = \frac{\{a(q-1)+b\}(q^n-1) - nb(q-1)}{cq^{n-1}(q-1)^2}.$$

XXVII. DIFFERENTIAL SERIES.

Let the first term of the series be a, and let d', d'', d''', &c. represent the first terms of the successive orders of differences; then taking N to represent the nth term, and s the sum of n terms, we have

1. $N = a + \frac{n-1}{1}d' + \frac{(n-1)(n-2)}{1 \cdot 2}d'' + \frac{(n-1)(n-2)(n-3)}{1 \cdot 2 \cdot 3}d''' + \&c.$

2. $s = na + \frac{n(n-1)}{1 \cdot 2}d' + \frac{n(n-1)(n-2)}{1 \cdot 2 \cdot 3}d'' + \frac{n(n-1)(n-2)(n-3)}{1 \cdot 2 \cdot 3 \cdot 4}d''' + \&c.$

Again, let

$$a - bx + cx^2 - dx^3 + ex^4 - fx^5 + \&c.$$

be any series, and d', d'', d''', the first terms of the successive orders of the differences of the coefficients a, b, c, &c. then will

$$s = a - \frac{bx}{1+x} - \frac{x^2}{(1+x)^2}d' - \frac{x^3}{(1+x)^3}d'' - \frac{x^4}{(1+x)^4}d''' - \&c.$$

XXVIII. *Recurring Series.*

Let the terms of the series

ax bx^2 cx^3 dx^4 ex^5 &c. be represented by
α β γ δ ϵ &c.

then if each successive term of this series be connected with a certain number of the preceding terms by some constant and uniform law, it is called a recurring series, and the sum of it may be found as follows, viz.

1. If $\alpha = a$,
$\beta = \beta$,
$\gamma = m\alpha\beta + nx^2\alpha$,
$\delta = m\alpha\gamma + nx^2\beta$,
$\epsilon = m\alpha\delta + nx^2\gamma$,
&c. &c.

then the infinite sum of the original series Σ, is

$$\Sigma = \frac{\alpha + \beta - am x}{1 - mx - nx^2}.$$

2. If $\alpha = a$,
$\beta = \beta$,
$\gamma = \gamma$,
$\delta = mx\gamma + nx^2\beta + rx^3\alpha$,
$\varepsilon = mx\delta + nx^2\gamma + rx^3\beta$,
&c. &c.

then the infinite sum

$$\Sigma = \frac{a + \beta + \gamma - (a + \beta)\, mx - anx^2}{1 - rx - nx^2 - rx^3}.$$

XXIX. *Logarithmic Series.*

1. $\text{Log. } a = \frac{1}{M} \times \left\{(a-1) - \frac{1}{2}(a-1)^2 + \frac{1}{3}(a-1)^3 - \text{&c.}\right\}$

2. $\text{Log. } a = \frac{1}{M} \times \left\{\left(\frac{a-1}{a}\right) + \frac{1}{2}\left(\frac{a-1}{a}\right)^2 + \frac{1}{3}\left(\frac{a-1}{a}\right)^3 + \text{&c.}\right\}$

3. $\text{Log. } a = \frac{2}{M} \times \left\{\left(\frac{a-1}{a+1}\right) + \frac{1}{3}\left(\frac{a-1}{a+1}\right)^3 + \frac{1}{5}\left(\frac{a-1}{a+1}\right)^5 + \text{&c.}\right\}$

4. $\text{Log. } \frac{a}{b} = \frac{1}{M} \times \left\{\left(\frac{a \sim b}{b}\right) - \frac{1}{2}\left(\frac{a \sim b}{b}\right)^2 + \frac{1}{3}\left(\frac{a \sim b}{b}\right)^3 - \text{&c.}\right\}$

5. $\text{Log. } \frac{a}{b} = \frac{1}{M} \times \left\{\left(\frac{a \sim b}{a}\right) + \frac{1}{2}\left(\frac{c \sim b}{a}\right)^2 + \frac{1}{3}\left(\frac{a \sim b}{a}\right)^3 + \text{&c.}\right\}$

6. $\text{Log. } \frac{a}{b} = \frac{2}{M} \times \left\{\left(\frac{a \sim b}{a+b}\right) + \frac{1}{3}\left(\frac{a}{a+b}\right)^3 + \frac{1}{5}\left(\frac{a \sim b}{a+b}\right) + \text{&c.}\right\}$

7. $\text{Log. } a = \text{log. } (a-1) + \frac{1}{M} \times \left\{\frac{1}{a} + \frac{1}{2a^2} + \frac{1}{3a^3} + \frac{1}{4a^4} + \text{&c.}\right\}$

8. $\text{Log. } a = \text{log. } (a-1) + \frac{1}{M} \times \left\{\frac{1}{a-1} - \frac{1}{2(a-1)^2} + \frac{1}{3(a-1)^3} - \text{&c.}\right\}$

9. $\text{Log. } a = \text{log. } (a-1) + \frac{2}{M} \times \left\{\frac{1}{a-1} + \frac{1}{3(a-1)^3} + \frac{1}{5(a-1)^5} + \text{&c.}\right\}$

10. $\text{Log. } a = \frac{1}{M} \times \left\{(a - a^{-1}) - \frac{1}{2}(a^2 - a^{-2}) + \frac{1}{3}(a^3 - a^{-3}) - \text{&c.}\right\}$

11. $\text{Log. } (a+z) = \text{log. } a + \frac{1}{M} \times \left\{\frac{z}{a} - \frac{1}{2}\frac{z^2}{a^2} + \frac{1}{3}\frac{z^3}{a^3} - \frac{1}{4}\frac{z^4}{a^4} + \text{&c.}\right\}$

12. $\text{Log. } (a-z) = \text{log. } a - \frac{1}{M} \times \left\{\frac{z}{a} + \frac{1}{2}\frac{z^2}{a^2} + \frac{1}{3}\frac{z^3}{a^3} + \frac{1}{4}\frac{z^4}{a^4} + \text{&c.}\right\}$

13. $\text{Log. } (a \pm z) = \text{log. } a \pm \frac{2}{M} \times \left\{\left(\frac{z}{a+z}\right) + \frac{1}{3}\left(\frac{z}{a+z}\right)^3 + \frac{1}{5}\left(\frac{z}{a+z}\right) + \text{&c.}\right\}$

14. $\text{Log. } a = \frac{m}{M} \times \left\{(\sqrt[m]{a} - 1) - \frac{1}{2}(\sqrt[m]{a} - 1)^2 + \frac{1}{3}(\sqrt[m]{a} - 1)^3 - \text{&c.}\right\}$

XXX. *Exponential Series.*

$$n_e = 1 + \frac{x}{1}\left(\frac{\text{log. } n}{M}\right) + \frac{x^2}{2}\left(\frac{\text{log. } n}{M}\right)^2 + \frac{x^3}{2 \cdot 3}\left(\frac{\text{log. } n}{M}\right)^3 + \text{&c.}$$

$$e^x = 1 + \frac{x}{1} + \frac{x^2}{2} + \frac{x^3}{2 \cdot 3} + \frac{x^4}{2 \cdot 3 \cdot 4} + \text{&c.}$$

where $e = 2{\cdot}7182818284$, &c. the number whose hyperbolic logarithm is 1.

XXXI. *Trigonometrical Series.*

Let a represent any arc, and r the radius; then

1. $a = \sin. a + \frac{\sin.^2 a}{2 \cdot 3\, r^2} A + \frac{3^2 \sin.^2}{4 \cdot 5\, r^2} B + \frac{5^2 \sin.^2 a}{6 \cdot 7\, r^2} C + \frac{7^2 \sin.^2 a}{8 \cdot 9\, r^2} D$, &c.

where A, B, C, &c. are the preceding terms.

2. $\sin. a = a - \frac{a^2}{2 \cdot 3\, r^2} A + \frac{a^2}{4 \cdot 5\, r^2} B - \frac{a^2}{6 \cdot 7\, r^2} C$ + &c.

3. $a = 90° - \cos. a - \frac{\cos.^3 a}{2 \cdot 3 r^2} - \frac{3 \cos.^5 a}{2 \cdot 4 \cdot 5\, r^4} - \frac{3 \cdot 5 \cos.^7 a}{2 \cdot 4 \cdot 6 \cdot 7\, r^6}$ - &c.

4. $\cos. a = r - \frac{a^2}{2r^2} A - \frac{a^2}{3 \cdot 4\, r^2} B - \frac{a^2}{5 \cdot 6\, r^2} C - \frac{a^2}{7 \cdot 8\, r^2} D$ - &c.

5. $a = \tan. a - \frac{\tan.^3 a}{3\, r^2} + \frac{\tan.^5 a}{5\, r^4} - \frac{\tan.^7 a}{7\, r^6}$ + &c.

6. $\tan. a = a + \frac{a^3}{3\, r^2} + \frac{2\, a^5}{15\, r^4} + \frac{17\, a^7}{315\, r^6} + \frac{62\, a^9}{2835\, r^8}$ + &c.

7. $a = \frac{r^2}{\cot. a} - \frac{r^4}{3 \cot.^3 a} + \frac{r^6}{5 \cot.^5 a} - \frac{r^8}{7 \cot.^7 a} + \frac{r^{10}}{9 \cot.^9 a}$ - &c.

8. $\cot. a = \frac{r^2}{a} - \frac{a}{3} - \frac{a^3}{45\, r^2} - \frac{2\, a^5}{945 r^4} - \frac{a^7}{4725\, r^6}$ - &c.

9. $a = 90° - \frac{r^2}{\sec. a} - \frac{r^4}{2 \cdot 3 \sec.^3 a} - \frac{3 r^6}{2 \cdot 4 \cdot 5 \sec.^5 a} - \frac{3 \cdot 5\, r^8}{2 \cdot 4 \cdot 6 \cdot 7 \sec.^7 a}$ - &c.

10. $\sec. a = r \left\{ \frac{\sec. a - r}{\sec. a} + \frac{\sec.^3 a - r^3}{2 \cdot 3 \sec.^3 a} + \frac{3 (\sec.^5 a - r^5)}{2 \cdot 4 \cdot 5 \sec.^5 a} + \right.$
$\left. \frac{3 \cdot 5 (\sec.^7 a - r^7)}{2 \cdot 4 \cdot 6 \cdot 7 \sec.^7 a} + \text{&c.} \right\}$

11. $a = \frac{r^2}{\operatorname{cosec}. a} + \frac{r^4}{2 \cdot 3 \operatorname{cosec}.^3 a} + \frac{3 r^6}{2 \cdot 4 \cdot 5 \operatorname{cosec}.^5 a} + \frac{3 \cdot 5\, r^8}{2 \cdot 4 \cdot 6 \cdot 7 \operatorname{cosec}.^7 a}$ + &c.

12. $\operatorname{cosec}. a = \frac{r^2}{a} + \frac{a}{6} + \frac{7\, a^3}{360\, r^2} + \frac{31\, a^5}{15120\, r^4} + \frac{127\, a^7}{604800\, r^6}$ + &c.

For the series in terms of the versed sine, see *Circular arcs, Synopsis of mensuration.*

13. $\log. \sin. a = \log. a - \frac{1}{M} \left\{ \frac{a^2}{2 \cdot 3\, r^2} + \frac{a^4}{2^2 \cdot 3 \cdot 5\, r^4} + \frac{a^6}{3^2 \cdot 5 \cdot 7\, r^6} + \text{&c.} \right\}$

14. $\log. \cos. a = \log. r - \frac{1}{M} \left\{ \frac{a^2}{2r^2} + \frac{a^4}{3 \cdot 4\, r^4} + \frac{a^6}{3^2 \cdot 5\, r^6} + \text{&c.} \right\}$

15. $\log. \tan. a = \log. a + \frac{1}{M} \left\{ \frac{a^2}{3r^2} + \frac{7\, a^4}{2 \cdot 3^2 \cdot 5 r^4} + \frac{62\, a^6}{3^4 \cdot 5 \cdot 7\, r^6} + \text{&c.} \right\}$

16. $\log. \cot. a = 20 - \log. \tan. a$; $\log. \sec. a = 20 - \log. \cos. a$; $\log. \operatorname{cosec}. a = 20 - \log. \sin. a$; $\log. \text{vers}. a = \log. 2 + 2 \log. \sin. \frac{1}{2} a - 10$.

SYNOPSIS OF TRIGONOMETRY.

XXXII. *Formulæ relating to sines, cosines, &c. of single arcs.*

Sin. $a =$

1. $\frac{\cos. a}{\cot. a}$.
2. $\sqrt{(1 - \cos.^2 a)}$.
3. $\cos. a \,.\, \tan. a$.
4. $\frac{1}{\sqrt{(1 + \cot.^2 a)}}$.
5. $\frac{\tan. a}{\sqrt{(1 + \tan.^2 a)}}$.
6. $2 \sin. \frac{1}{2} a \,.\, 2 \cos. \frac{1}{2} a$
7. $\sqrt{\frac{1 - \cos. 2a}{2}}$.
8. $\frac{2 \tan. \frac{1}{2} a}{1 + \tan.^2 \frac{1}{2} a}$.
9. $\frac{2}{\cot. \frac{1}{2} a + \tan. \frac{1}{2} a}$.
10. $\frac{1}{\cot. a + \tan. \frac{1}{2} a}$.
11. $2 \sin.^2 (45° + \frac{1}{2} a) - 1$.
12. $1 - 2 \sin.^2 (45° - \frac{1}{2} a)$.
13. $\frac{1 - \tan.^2 (45° - \frac{1}{2} a)}{1 + \tan.^2 (45° - \frac{1}{2} a)}$.
14. $\frac{\tan. (45° + \frac{1}{2} a) - \tan. (45° - \frac{1}{2} a)}{\tan. (45° + \frac{1}{2} a) + \tan. (45° - \frac{1}{2} a)}$.
15. $\sin. (60° + a) - \sin. (60° - a)$.

Cos. $a =$

16. $\frac{\sin. a}{\tan. a}$.
17. $\sin. a \,.\, \cot. a$.
18. $\sqrt{(1 - \sin.^2 a)}$.
19. $\frac{1}{\sqrt{(1 + \tan.^2 a)}}$.
20. $\frac{\cot. a}{\sqrt{(1 + \cot.^2 a)}}$.
21. $\cos.^2 \frac{1}{2} a - \sin.^2 \frac{1}{2} a$.
22. $1 - 2 \sin.^2 \frac{1}{2} a$.
23. $2 \cos.^2 \frac{1}{2} a - 1$.
24. $\sqrt{\frac{1 + \cos. 2a}{2}}$.
25. $\frac{1 - \tan.^2 \frac{1}{2} a}{1 + \tan.^2 \frac{1}{2} a}$.
26. $\frac{\cot. \frac{1}{2} a - \tan. \frac{1}{2} a}{\cot. \frac{1}{2} a + \tan. \frac{1}{2} a}$.
27. $\frac{1}{1 + \tan. a \,.\, \tan. \frac{1}{2} a}$.
28. $\frac{2}{\tan. (45° + \frac{1}{2} a) + \cot. (45° + \frac{1}{2} a)}$.
29. $2 \cos. (45° + \frac{1}{2} a) \cos. (45 \sim \frac{1}{2} a)$.
30. $\cos. (60° + a) + \cos. (60° \sim a)$

Tan. $a =$

31. $\frac{\sin.}{\cos. a}$.
32. $\frac{1}{\cot. a}$.

33. $\sqrt{\left(\frac{1}{\cos.^2 a} - 1\right)}$

34. $\frac{\sin. a}{\sqrt{(1 - \sin.^2 a)}}$.

35. $\frac{\sqrt{(1 - \cos.^2 a)}}{\cos. a}$.

36. $\frac{2 \tan. \frac{1}{2} a}{1 - \tan.^2 \frac{1}{2} a}$.

37. $\frac{2 \cot. \frac{1}{2} a}{\cot.^2 \frac{1}{2} a - 1}$.

38. $\frac{2}{\cot. \frac{1}{2} a - \tan. \frac{1}{2} a}$.

39. $\cot. a - 2 \cot. 2 a$.

40. $\frac{1 - \cos. 2 a}{\sin. 2 a}$.

41. $\frac{\sin. 2 a}{1 + \cos. 2 a}$.

42. $\sqrt{\frac{1 - \cos. 2 a}{1 + \cos. 2 a}}$.

43. $\frac{\tan. (45° + \frac{1}{2} a) - \tan. (45° - \frac{1}{2} a)}{2}$.

XXXIII. *Formulas relating to two arcs.*

1. $\sin. (a + b) = \sin. a \,.\, \cos. b + \cos. a \,.\, \sin. b.$
2. $\sin. (a - b) = \sin. a \,.\, \cos. b - \cos. a \,.\, \sin. b.$
3. $\cos. (a + b) = \cos. a \,.\, \cos. b - \sin. a \,.\, \sin. b.$
4. $\cos. (a \sim b) = \cos. a \,.\, \cos. b + \sin. a \,.\, \sin. b.$
5. $\tan. (a + b) = \frac{\tan. a + \tan. b}{1 - \tan. a \,.\, \tan. b}$.
6. $\tan. (a - b) = \frac{\tan. a - \tan. b}{1 + \tan. a \,.\, \tan. b}$.
7. $\left\{\begin{matrix}\sin. 45° \pm b \\ \cos. 45° \mp b\end{matrix}\right\} = \frac{\cos. b \pm \sin. b}{\sqrt{2}}$.
8. $\tan. 45° \pm b = \frac{1 \pm \tan. b}{1 \mp \tan. b}$.
9. $\tan. 45° \pm \frac{1}{2} b = \frac{1 \pm \sin. b}{1 \mp \sin. b}$.
10. $\frac{\sin. (a + b)}{\sin. (a - b)} = \frac{\tan. a + \tan. b}{\tan. a - \tan. b} = \frac{\cot. b + \cot. a}{\cot. b - \cot. a}$.
11. $\frac{\cos. (a + b)}{\cos. (a \sim b)} = \frac{\cot. b - \tan. a}{\cot. b + \tan. a} = \frac{\cot. a - \tan. b}{\cot. a + \tan. b}$.
12. $\frac{\sin. a + \sin. b}{\sin. a - \sin. b} = \frac{\tan. \frac{1}{2} (a + b)}{\tan. \frac{1}{2} (a - b)}$.
13. $\frac{\cos. b + \cos. a}{\cos. b - \cos. a} = \frac{\cot. \frac{1}{2} (a + b)}{\tan. \frac{1}{2} (a - b)}$.
14. $\sin. a \,.\, \cos. b = \frac{1}{2} \sin. (a + b) + \frac{1}{2} \sin. (a - b).$
15. $\cos. a \,.\, \sin. b = \frac{1}{2} \sin. (a + b) - \frac{1}{2} \sin. (a - b).$
16. $\sin. a \,.\, \sin. b = \frac{1}{2} \cos. (a \sim b) - \frac{1}{2} \cos. (a + b).$
17. $\cos. a \,.\, \cos. b = \frac{1}{2} \cos. (a + b) + \frac{1}{2} \cos. (a \sim b).$
18. $\sin. a + \sin. b = 2 \sin. \frac{1}{2} (a + b) \cos. \frac{1}{2} (a \sim b).$
19. $\cos. a + \cos. b = 2 \cos. \frac{1}{2} (a + b) \cos. \frac{1}{2} (a \sim b).$
20. $\tan. a + \tan. b = \frac{\sin. (a + b)}{\cos. a \,.\, \cos. b}$.
21. $\cot. a + \cot. b = \frac{\sin. (a + b)}{\sin. a \,.\, \sin. b}$.

22. $\sin. a - \sin. b = 2 \sin. \frac{1}{2}(a - b) . \cos. \frac{1}{2}(a + b)$.
23. $\cos. b - \cos. a = 2 \sin. \frac{1}{2}(a - b) . \sin. \frac{1}{2}(a + b)$.
24. $\tan. a - \tan. b = \frac{\sin. (a - b)}{\cos. a . \cos. b}$.
25. $\cot. b - \cot. a = \frac{\sin. (a - b)}{\sin. a . \sin. b}$.
26. $\left.\begin{matrix}\sin.^2 a - \sin.^2 b = \\ \cos.^2 b - \cos.^2 a =\end{matrix}\right\} \sin. (a - b) . \sin. (a + b)$.
27. $\cos.^2 a - \sin.^2 b = \cos. (a \sim b) . \cos. (a + b)$.
28. $\tan.^2 a - \tan.^2 b = \frac{\sin. (a - b) . \sin. (a + b)}{\cos.^2 a . \cos.^2 b}$
29. $\cot.^2 b - \cot.^2 a = \frac{\sin. (a - b) . \sin. (a + b)}{\sin.^2 a . \sin.^2 b}$.
30. $\sin. b = \sin. (a + b) . \cos. a - \sin. a . \cos. (a + b)$.
31. $\cos. b = \sin. (a + b) \sin. a + \cos. a . \sin. (a + b)$.

XXXIV. *Formulæ relating to Multiple Arcs.*

1. $\sin. a = \sin. a$.
2. $\sin. 2a = 2 \cos. a . \sin. a$.
3. $\sin. 3a = 2 \cos. a . \sin. 2a - \sin. a$.
4. $\sin. 4a = 2 \cos. a . \sin. 3a - \sin. 2a$.
5. $\sin. 5a = 2 \cos. a . \sin. 4a - \sin. 3a$.

&c. &c.

6. $\cos. a = \cos. a$.
7. $\cos. 2a = 2 \cos.^2 a - 1$.
8. $\cos. 3a = 4 \cos.^3 a - 3 \cos. a$.
9. $\cos. 4a = 8 \cos.^4 a - 8 \cos.^2 a + 1$.
10. $\cos. 5a = 16 \cos.^5 a - 20 \cos.^3 a + 5 \cos. a$.

&c. &c.

11. $\tan. a = \tan. a$.
12. $\tan. 2a = \frac{2 \tan. a}{1 - \tan.^2 a}$.
13. $\tan. 3a = \frac{3 \tan. a - \tan.^3 a}{1 - 3 \tan.^2 a}$.
14. $\tan. 4a = \frac{4 \tan. a - 4 \tan.^3 a}{1 - 6 \tan.^2 a + \tan.^4 a}$.
15. $\tan. 5a = \frac{5 \tan. a - 10 \tan.^3 a + \tan.^5 a}{1 - 10 \tan.^2 a + 5 \tan.^4 a}$.

&c. &c.

16. $\cot. a = \cot. a$.
17. $\cot. 2a = \frac{\cot.^2 a - 1}{2 \cot. a}$.
18. $\cot. 3a = \frac{\cot.^3 a - 3 \cot. a}{3 \cot.^2 a - 1}$.

19. $\cot. 4a = \dfrac{\cot.^4 a - 6\cot.^2 a + 1}{4\cot.^3 a - 4\cot. a}$.

20. $\cot. 5a = \dfrac{\cot.^5 a - 10\cot.^3 a + 5\cot. a}{5\cot.^4 a - 10\cot.^2 a + 1}$.

&c. &c.

21. $\sec. a = \sec. a$.

22. $\sec. 2a = \dfrac{\sec.^2 a}{2 - \sec.^2 a}$.

23. $\sec. 3a = \dfrac{\sec.^3 a}{4 - 3\sec.^2 a}$.

24. $\sec. 4a = \dfrac{\sec.^4 a}{8 - 8\sec.^2 a + \sec.^4 a}$.

25. $\sec. 5a = \dfrac{\sec.^5 a}{16 - 20\sec.^2 a + 5\sec.^4 a}$.

&c. &c.

$$\text{Vers. } na = n^2 \text{ vers. } a - \frac{n^2 - 1}{2 \cdot 3\, r} \text{ (A) vers. } a - \frac{n^2 - 2^2}{3 \cdot 5\, r} \text{ (B) vers. } a$$
$$- \frac{n^2 - 3^2}{4 \cdot 7\, r} \text{ (C) vers. } a - \frac{n^2 - 4^2}{5 \cdot 9\, r} \text{ (D) vers. } a \text{ &c.}$$

where A, B, C, &c. are the preceding terms.

XXXV. SOLUTION OF THE CASES IN PLANE TRIGONOMETRY.

Right-angled Triangles.

Let A, B, C, be supposed to represent the letters standing at the three angles of a right-angled triangle; then

$$AB = \frac{BC \cdot \sin. C}{\sin. A} = \frac{AC \cdot \sin. C}{\sin. B}.$$

$$AC = \frac{AB \cdot \sin. B}{\sin. C} = \frac{BC \cdot \sin. B}{\sin. A}.$$

$$BC = \frac{AC \cdot \sin. A}{\sin. B} = \frac{AB \cdot \sin. A}{\sin. C}.$$

$$\text{Sin. } A = \frac{BC \cdot \sin. C}{AB} = \frac{BC \cdot \sin. B}{AC}.$$

$$\text{Cos. } A = \pm\frac{\sqrt{(AB^2 - BC^2 \cdot \sin.^2 C)}}{AB} = \frac{\pm\sqrt{(AC^2 - BC^2 \cdot \sin.^2 B)}}{AC}.$$

$$\text{Tan. } A = \frac{BC \cdot \sin. C}{\pm\sqrt{(AB^2 - BC^2 \cdot \sin.^2 C)}} = \frac{BC \cdot \sin. B}{\pm\sqrt{(AC^2 - BC^2 \cdot \sin.^2 B)}}.$$

$$\text{Sin. } B = \frac{AC \cdot \sin. A}{BC} = \frac{AC \cdot \sin. C}{AB}.$$

$$\text{Cos. } B = \frac{\pm\sqrt{(BC^2 - AC^2 \cdot \sin.^2 A)}}{BC} = \frac{\pm\sqrt{(AB^2 - AC^2 \cdot \sin.^2 C)}}{AB}.$$

$$\text{Tan. B} = \frac{\text{AC . sin. A}}{\pm\sqrt{(\text{BC}^2 - \text{AE}^2 \text{ . sin.}^2 \text{ A})}} = \frac{\text{AC . sin. C}}{\pm\sqrt{(\text{AB}^2 - \text{AC}^2 \text{ . sin.}^2 \text{ C})}}.$$

$$\text{Sin. C} = \frac{\text{AB . sin. B}}{\text{AC}} = \frac{\text{AB . sin. A}}{\text{BC}}.$$

$$\text{Cos. C} = \frac{\pm\sqrt{(\text{AC}^2 - \text{AB}^2 \text{ . sin.}^2 \text{ B})}}{\text{AC}} = \frac{\pm\sqrt{(\text{BC}^2 - \text{AB}^2 \text{ . sin.}^2 \text{ A})}}{\text{BC}}.$$

$$\text{Tan. C} = \frac{\text{AB . sin. B}}{\pm\sqrt{(\text{AC}^2 - \text{AB}^2 \text{ . sin.}^2 \text{ B})}} = \frac{\text{AB . sin. A}}{\pm\sqrt{(\text{BC}^2 - \text{AB}^2 \text{ . sin.}^2 \text{ B})}}.$$

XXXVI. *Oblique-angled Triangles.*

1. *Given three Angles and a Side.*

$$\text{Side sought} = \frac{\text{sin. oppos. ang. } \times \text{ given side}}{\text{sin. ang. oppos. given side}}$$

2. *Given two Sides and an Angle opposite one of them.*

$$\text{Sin. ang. sought} = \frac{\text{oppos. side } \times \text{ sin. given angle}}{\text{side oppos. given angle}}.$$

Hence, two angles being known, the third is also known, and the other side may be found by formula 1.

3. *Given two Sides and the Angle contained between them.*

Let the given angle be denoted by a, and the two unknown angles by x and y, whose sum is $180^\circ - a$, then

$$\tan.\ \tfrac{1}{2}(x - y) = \frac{\text{diff. given sides } \times \tan.\ \frac{1}{2}(x + y)}{\text{sum of given sides}},$$

hence, the sum and difference of x and y being determined, both x and y become known, and the third side may be found by formula 1.

4. *Given the three Sides.*

Let s denote half the sum of the given sides.

$$\cos.\ \tfrac{1}{2}\text{ angle} = \sqrt{\frac{\text{s(s} - \text{side oppos. angle sought)}}{\text{rectan. of sides adjacent ang. sought}}},$$

$$\sin.\ \tfrac{1}{2}\text{ angle} = \sqrt{\frac{\text{(s} - \text{one of the sides adj. ang. sought) (s} - \text{the other adj. side)}}{\text{rectan. of sides adjacent angle sought}}}.$$

$$\tan.\ \tfrac{1}{2}\text{ angle} = \sqrt{\frac{\text{(s} - \text{one of the sides adj. ang. sought) (s} - \text{the other adj. side)}}{\text{s (s} - \text{side opposite angle sought)}}}.$$

XXXVII. *Solution of the Cases of Right-angled Spherical Triangles.*

Given.	Required.	Values of the Terms required.	Cases in which the terms required are less than 90°.
I. Hypothenuse, and one leg.	Angle opposite to the given leg.	Its sin. $= \frac{\text{sin. given leg.}}{\text{sin. hypoth.}}$	If the given leg be less than 90°.
	Angle adjacent to the given leg.	Its cos. $= \frac{\text{tan. given leg.}}{\text{tan. hypoth.}}$	If the things given be of the same affection.
	Other leg.	Its cos. $= \frac{\text{cos. hypoth.}}{\text{cos. given leg.}}$	Idem.
II. One leg, and its opposite angle.	Hypothenuse.	Its sin. $= \frac{\text{sin. given leg.}}{\text{sin. given ang.}}$	Ambiguous.
	Other leg.	Its sin. $= \frac{\text{tan. given leg.}}{\text{tan. given ang.}}$	Idem.
	Other angle.	Its sin. $= \frac{\text{cos. given ang.}}{\text{cos. given leg.}}$	Idem.
III. One leg, and the adjacent angle.	Hypothenuse.	Its tan. $= \frac{\text{tan. given leg.}}{\text{cos. given ang.}}$	If the things given be of like affection.
	Other angle.	Its cos. $=$ cos. given leg. $\times$ sin. given ang.	If the given leg be less than 90°.
	Other leg.	Its tan. $=$ sin. given leg. tan. given ang.	If the given angle be less than 90°.

IV. Hypothenuse, and one angle.	Adjacent leg.	Its tan. = tan. hyp. × cos. given angle.	If the things given be of like affection.
	Leg opposite to the given angle.	Its sin. = sin. hyp. × sin. given angle.	If the given angle be acute.
	Other angle.	Its tan. = $\frac{\text{cot. given angle}}{\text{cos. hypothen.}}$.	If the things given be of like affection.
V. The two legs.	Hypothenuse.	Its cos. = rectan. cos. given legs.	If the given legs be of like affection.
	Either of the angles.	Its tan. = $\frac{\text{tan. opposite leg.}}{\text{sin. adjacent leg.}}$.	If the opposite leg be less than 90°.
VI. The two angles.	Hypothenuse.	Its cos. = rect. cot. given angles.	If the angles be of like affection.
	Either of the legs.	Its cos. = $\frac{\text{cos. opposite angle}}{\text{sin. adjacent angle}}$.	If the opposite angle be acute.

In working by the logarithms, it must be observed that when the resulting logarithm is the log. of a quotient, 10 must be added to the index; when it is the log. of a product, 10 must be subtracted from the index. Thus when the two angles are given,

Log. cos. hypothen. = log. cos. one angle + log. cos. other angle − 10;
Log. cos. either leg. = log. cos. opp. angle − log. sin. adjac. angle + 10.

In a quadrantal triangle, if the quadrantal side be called radius, the supplement of the angle opposite to that side be called hypothenuse, the other sides be called angles, and their opposite angles be called legs: then the solutions of all the cases will be as in this table; merely changing *like* for *unlike* in the determinations.

XXXVIII. *For the Solution of Oblique-angled Spherical Triangles.*

An angle or a side being divided by a perpendicular, the first and second segments are denoted by 1 seg. and 2 seg.

Given.	Required.		Values of the Quantities required.
I. Two angles and a side opposite to one of them.	The side opp. to other angle.	By the common analogy.	Sines of angles are as sines of opp. sides.
	Third side.	Let fall a perpen. on the side contained between the given angles.	Tan. 1 seg. of this side = cos. adj. angle × tan. given side. Sin. 2 seg. = $\frac{\text{sin. 1 seg.} \times \text{tan. ang. adjacent given side}}{\text{tan. ang. opp. given side}}$.
	Third angle.	Let fall a perpen. as before.	Cot. 1 seg. of this ang. = cos. giv. side × tan. adjacent angle. Sin. 2 seg. = $\frac{\text{sin. 1 seg.} \times \text{cos. ang. opposite given side}}{\text{cos. ang. adjacent given side}}$.
II. Two sides and an angle opposite to one of them.	The angle opposite to the other side.	By the common analogy.	Sines of sides are as sines of their opposite angles.
	Angle included between the given sides.	Let fall a perpendicular from the included angle.	Cot. 1 seg. ang. req. = tan. giv. ang. × cos. adjacent side. Cos. 2 seg. = $\frac{\text{cos. 1 seg.} \times \text{tan. given side adjacent given angle}}{\text{tan. side opp. given angle}}$.
	Third side.	Let fall a perpendicular as before.	Tan. 1 seg. side req. = cos. given angle × tan. adjacent side. Cos. 2 seg. = $\frac{\text{cos. 1 seg.} \times \text{cos. side opposite given angle}}{\text{cos. side adjacent given angle}}$.

III. Two sides and the included angle.

An angle opposite to one of the given sides.

Let fall a perpendicular from the third angle.

Tan. 1 seg. of div. side = cos. given angle × tan. side opp. angle sought.

$$\text{Tan. angle sought} = \frac{\text{tan. given ang.} \times \text{sin. 1 seg.}}{\text{sin. 2 seg. of div. side}}.$$

Third side.

Let fall a perpendicular on one of the given sides.

Tan. 1 seg. of div. side = cos. given angle × tan. other given side.

$$\text{Cos. side sought} = \frac{\text{cos. side not div.} \times \text{cos. 2 seg.}}{\text{cos. 1 seg. of side divided}}.$$

IV. A side and the two adjacent angles.

A side opposite to one of the given angles.

Let fall a perpendicular on the third side.

Cot. 1 seg. of div. ang. = cos. given side × tan. angle opp. side sought.

$$\text{Tan. side sought} = \frac{\text{tan. given side} \times \text{cos. 1 seg. div. angle}}{\text{cos. 2 seg. of divided angle}}.$$

Third angle.

Let fall a perpendicular from one of the given angles.

Cot. 1 seg. div. angle = cos. given side × tan. other given angle.

$$\text{Cos. angle sought} = \frac{\text{cos. ang. not div.} \times \text{sin. 2 seg.}}{\text{sin. 1 seg. div. angle}}.$$

V. The three sides.

An angle by the sine or cosine of its half.

Let a, b, c, be the sides; A, B, C, the angles, b and c including the angle sought, and $s = a + b + c$.

Then,

$$\sin. \tfrac{1}{2} \text{A} = \sqrt{\frac{\sin.(\frac{1}{2}s - b) \cdot \sin.(\frac{1}{2}s - c)}{\sin. b \cdot \sin. c}} \quad \cos. \tfrac{1}{2} \text{A} = \sqrt{\frac{\sin. \frac{1}{2}s \cdot \sin.(\frac{1}{2}s - a)}{\sin. b \cdot \sin. c}}.$$

VI. The three angles.

A side by the sine or cosine of its half.

Let s be the sum of the angles A, B, and C: and let B and C be adjacent to a the side required.

Then,

$$\sin. \tfrac{1}{2} a = \sqrt{-\frac{\cos. \frac{1}{2}\text{s} \cdot \cos.(\frac{1}{2}\text{s} - \text{A})}{\sin. \text{B} \cdot \sin. \text{C}}} \quad \cos. \tfrac{1}{2} a = \sqrt{-\frac{\sin.(\frac{1}{2}\text{s} - \text{B}) \cdot \sin.(\frac{1}{2}\text{s} - \text{C})}{\sin. \text{B} \cdot \sin. \text{C}}}.$$

XXXIX. *For the Solution of all the Cases of Oblique-angled Spherical Triangles, by the Analogies of Napier.*

Given.	Required.	Values of the Terms required.
I. Two angles and one of their opposite sides.	Side opposite to the other given angle.	By the common analogy, sines of angles as sines of opposite sides.
	Third side.	Tan. of its half $= \frac{\text{tan. } \frac{1}{2} \text{ diff. given sides} \times \text{sin. } \frac{1}{2} \text{ sum opposite angles}}{\text{sin. } \frac{1}{2} \text{ diff. of those angles}}$. $= \frac{\text{tan. } \frac{1}{2} \text{ sum given sides} \times \text{cos. } \frac{1}{2} \text{ sum opposite angles}}{\text{cos. } \frac{1}{2} \text{ diff. of those angles}}$.
	Third angle.	By the common analogy.
II. Two sides and an opposite angle.	Angle opposite to the other known side.	By the common analogy.
	Third angle.	Cot. of its half $= \frac{\text{tan. } \frac{1}{2} \text{ diff. other two ang.} \times \text{sin. } \frac{1}{2} \text{ sum given sides}}{\text{sin. } \frac{1}{2} \text{ diff. those sides}}$. $= \frac{\text{tan. } \frac{1}{2} \text{ sum of other two ang.} \times \text{cos. } \frac{1}{2} \text{ sum-given sides}}{\text{cos. } \frac{1}{2} \text{ diff. of those sides}}$.
	Third side.	By the common analogy.

III. Two sides, and the included angle.	The other two angles.	Tan. $\frac{1}{2}$ their diff. $= \frac{\text{cot. } \frac{1}{2} \text{ given ang.} \times \text{sin. } \frac{1}{2} \text{ diff. given sides}}{\text{sin. } \frac{1}{2} \text{ sum of those sides}}$. Tan. $\frac{1}{2}$ their sum $= \frac{\text{cot. } \frac{1}{2} \text{ given ang.} \times \text{cos. } \frac{1}{2} \text{ diff. given sides}}{\text{cos. } \frac{1}{2} \text{ sum of those sides}}$.
	Third side.	By the common analogy.
IV. Two angles, and the side between them.	The other two sides.	Tan. $\frac{1}{2}$ their diff. $= \frac{\text{tan. } \frac{1}{2} \text{ given side} \times \text{sin. } \frac{1}{2} \text{ diff. given angles}}{\text{sin. } \frac{1}{2} \text{ sum of those angles}}$. Tan. $\frac{1}{2}$ their sum $= \frac{\text{tan. } \frac{1}{2} \text{ given side} \times \text{cos. } \frac{1}{2} \text{ diff. given angles}}{\text{cos. } \frac{1}{2} \text{ sum of those angles}}$.
	Third angle.	By the common analogy.
V. The three sides.	Either of the angles.	Let fall a perpendicular on the side adjacent to the angle sought. Tan. $\frac{1}{2}$ sum or $\frac{1}{2}$ diff. of the seg. of the base $= \frac{\text{tan. } \frac{1}{2} \text{ sum} \times \text{tan. } \frac{1}{2} \text{ diff. of the sides}}{\text{tan. } \frac{1}{2} \text{ base}}$. Cos. angle sought = tan. adjacent seg. $\times$ cot. adjacent side.
VI. The three angles.	Either of the sides.	Will be obtained by finding its correspondent angle in a triangle which has all its parts supplemental to those of the triangle whose three angles are given.

For the investigation of the preceding trigonometrical formulæ, the reader may consult the treatises of Trigonometry by Cagnoli, Bonnycastle, and Woodhouse.

SYNOPSIS OF MENSURATION.

XL. TRIANGLES.

Let a, b, c represent the three sides of a triangle; A, B, C the angles opposite to those sides respectively; p the perpendicular falling upon the base b: then

1. Area $= \frac{1}{2}\, bp$.
2. —— $= \frac{1}{2}\, ab \,.\, \sin. C = \frac{1}{2}\, ac \,.\, \sin. B = \frac{1}{2}\, bc \,.\, \sin. A$.

make $a+b+c = s$, the sum of the sides; then

3. area $= \sqrt{\{\frac{1}{2}s\,(\frac{1}{2}s-a)\,(\frac{1}{2}s-b)\,(\frac{1}{2}s-c)\}}$
4. log. area $= \frac{1}{2}\{\log.\frac{1}{2}s + \log.(\frac{1}{2}s-a) + \log.(\frac{1}{2}s-b) + \log.(\frac{1}{2}s-c)\}$

XLI. TRAPEZIUMS.

Let a, b, c, d represent the four sides; a and c, b and d being those which are opposite to each other; δ and δ' the two diagonals; φ the angle formed by their intersection, also p, p' the perpendiculars falling from two opposite angles on the diagonals δ: then

1. Area $= \frac{1}{2}\delta\,(p+p')$.
2. —— $= \frac{1}{2}\delta\delta' \,.\, \sin.\, \varphi$.
3. —— $= \frac{1}{4}\{(a^2+c^2) \sim (b^2+d^2)\}$ tan. φ.

If *the trapezium* be inscribable in a circle, then

4. Area $= \sqrt{\{(s-a)\,(s-b)\,(s-c)\,(s-d)\}}$
5. Log. area $= \frac{1}{2}\{\log.\,(s-a) + \log.\,(s-b) + \log.\,(s-c) + \log.\,(s-d)\}$
6. Area $= (ab+cd)\,\sin.\,\pi$.

where s represents *half* the sum of the sides, and π is the angle contained by a and b, or by c and d. If a and c, or b and d, be parallel, and p their perpendicular distance: then

7. Area $= \frac{1}{2}p\,(a+c)$ or, $\frac{1}{2}p\,(b+d)$.

XLII. REGULAR POLYGONS.

Let s represent one of the equal sides, n the number of sides, p the perpendicular falling from the centre of the polygons upon one of the sides: then

1. Area $= \frac{1}{2}\, psn$.
2. —— $= np^2$ tan. $\dfrac{360^\circ}{2n}$.
3. —— $= \frac{1}{4}ns^2$ cotan. $\dfrac{360^\circ}{2n}$, or $\frac{1}{4}\, ns^2$ tan. $\left(90 - \dfrac{360^\circ}{2n}\right)$.

Which last formula resolves itself into the following particular ones, viz.

	Sides.	
4. Trigon	(3)	$= s^2 \times$ 0·4330 27 or $\frac{1}{4}$ tan. 30°.
5. Tetragon	(4)	$= s^2 \times$ 1·0000000 or tan. 45°.
6. Pentagon	(5)	$= s^2 \times$ 1·7204774 or $\frac{1}{4}$ tan. 54°.
7. Hexagon	(6)	$= s^2 \times$ 2·5980762 or $\frac{1}{4}$ tan. 60°.
8. Heptagon	(7)	$= s^2 \times$ 3·6339124 or $\frac{7}{4}$ tan. 64°$\frac{2}{7}$.
9. Octagon	(8)	$= s^2 \times$ 4·8284271 or $\frac{1}{4}$ tan. 67$\frac{1}{2}$°.
10. Nonagon	(9)	$= s^2 \times$ 6·1818242 or $\frac{9}{4}$ tan. 70°.
11. Decagon	(10)	$= s^2 \times$ 7·6942088 or $\frac{10}{4}$ tan. 72°.
12. Undecagon	(11)	$= s^2 \times$ 9·3656399 or $\frac{11}{4}$ tan. 73°$\frac{7}{11}$.
13. Dodecagon	(12)	$= s^2 \times$ 11·1961524 or $\frac{12}{4}$ tan. 75°.

XLIII. CIRCLE.

Let r represent the radius, d the diameter, c the circumference, and a the area: then

1. Area $= \frac{1}{4} cd$.
2. —— = ·78539 &c. $\times d^2$.
3. —— = ·07958 &c. $\times c^2$.
4. circumference = 3·14159 $\times d$.

If we make $3{\cdot}14159 = p$, we have the following relation of the above quantities.

1. —— $d = \frac{c}{p} = \frac{4a}{c} = 2\sqrt{\frac{a}{p}}$.
2. —— $c = pd = \frac{4a}{d} = 2\sqrt{pa}$.
3. —— $a = \frac{pd^2}{4} = \frac{c^2}{4p} = \frac{dc}{4}$.
4. —— $p = \frac{c}{d} = \frac{4a}{d^2} = \frac{c^2}{4a}$.

XLIV. CIRCULAR ARCS.

Let r represent the radius and d the diameter of any circle, and s, c, v, t, f, the sine, cosine, versed sine, tangent, and secant of the arc whose length is required, and of which the measure in degrees, &c. is m: then

1. Arc $= rm \times$ ·0174533.
2. —— $= t - \frac{1}{3}t^3 + \frac{1}{5}t^5 - \frac{1}{7}t^7 + \frac{1}{9}t^9 -$ &c. $\times r$.
3. —— $= s + \frac{1 \cdot s^3}{2 \cdot 3} + \frac{1 \cdot 3 s^5}{2 \cdot 4 \cdot 5} + \frac{1 \cdot 3 \cdot 5 s^7}{2 \cdot 4 \cdot 6 \cdot 7}$ + &c. $\times r$.
4. —— $= \frac{f}{c} - \frac{f^3}{3c^3} + \frac{f^5}{5c^5} - \frac{f^7}{7c^7} + \frac{f^9}{9c^9} -$ &c. $\times r$.
5. —— $= 2\sqrt{2v} \cdot \left\{1 + \frac{v}{2^2 \cdot 3} + \frac{1 \cdot 3 v^2}{2^3 \cdot 4 \cdot 5} + \frac{1 \cdot 3 \cdot 5 v^3}{2^4 \cdot 4 \cdot 6 \cdot 7} + \text{&c.}\right\} \times r$.

To which may be added the following approximations.

6. Arc $= 2d\sqrt{\frac{3h}{3d-h}}$ nearly.

7. —— $= \frac{2}{3}\left\{5d\sqrt{\frac{5h}{5d-3h}} + 4\sqrt{dh}\right\}$ nearly.

8. —— $= \frac{8c'-c}{3}$ nearly.

where c is the chord of the whole arc, c' the chord of half the arc, and h the height of the whole segment, or versed sine of the half arc.

XLV. CIRCULAR SECTORS.

Let l represent the length of the arc of the sector, r the radius, and m its measure in degrees, minutes, &c.: then

1. Area $= \frac{1}{2}rl$.

2. —— $= \cdot 78539 \times \frac{4r^2m}{360}$.

XLVI. CIRCULAR SEGMENTS.

If A′ represent the area of the circular sector, c′ the chord of the arc, and v, the versed sines of half arc: then

1. Area of segment $= A' \pm \frac{1}{2}c(r-v)$.

2. Area $= \begin{cases} 2v\sqrt{dv} \times \left\{\frac{2}{3} - \frac{v}{5d} - \frac{v^2}{28d^2} - \frac{v^3}{72d^3} - \text{&c.}\right\} \text{or} \\ 2\sqrt{dv} \times \left\{\frac{2}{3} - \frac{3v}{5.2d}\text{A} - \frac{5v}{7.4d}\text{B} - \frac{7.3v}{9.6d}\text{C} - \frac{9.5v}{11.8d}\text{D} - \text{&c.}\right\} \end{cases}$

A, B, C, &c. being the preceding terms.

3. Area $= \frac{2}{3}v\sqrt{vv} + \frac{v}{5v}\text{A} - \frac{v}{7v}\text{B} + \frac{3v}{9v}\text{C} - \frac{5v}{11v}\text{D}$, &c.

where $v = (d-v)$.

4. Area $= 2rc'' - \frac{1}{2.3}q^2\text{A} - \frac{1.3}{4.5}q^2\text{B} - \frac{3.5}{6.7}q^2\text{C}$, &c.

where c'' represents the cosine of half the arc, and $q = \frac{c''}{r}$.

A, B, C, &c. being the preceding terms.

To which may be added the following approximations, viz.

5. Area $= \frac{2}{3}v\left\{\sqrt{(dv - v^2)} + \frac{2}{3}\sqrt{dv}\right\}$ nearly.

6. —— $= \frac{2}{3}v(dv - \frac{1}{5}v^2)$ nearly.

If c′ be made to represent the chord of the whole arc, and c the chord of half the arc: then

7. Area $= \frac{4}{10} v\,(c' + \frac{4}{3}c)$ nearly.
8. —— $= \frac{4}{3} v \sqrt{(\frac{1}{4}c'^2 + \frac{2}{5}v^2)}$ nearly.
9. —— $= d^2 \times$ tabular number answering to $\frac{v}{d}$ in the table of circular segments.

Note. The area of circular zones will be found by finding the difference of the two segments; and the area of circular rings, by finding the difference of the areas of the two circles; or, by making D and d the diameters: then

10. Area of the ring $= (D + d)\,(D - d) \times 78539$.

XLVII. ELLIPSE.

Let t represent the semi-transverse axis, c the semi-conjugate, x any absciss, y the corresponding ordinate, and p the parameter: then will these quantities have the following relations, viz.

1. Ordinate $(y) = \frac{c}{t}\sqrt{(2xt - x^2)}$
2. Absciss $(x) = \pm \frac{t}{c}\sqrt{(c^2 - y^2)} + t$.
3. Conjugate $(c) = \frac{ty}{\sqrt{(2tx - x^2)}}$.
4. Transverse $(t) = \frac{cx}{y^2}\left\{c \mp \sqrt{(c^2 - y^2)}\right\}$
5. Parameter $(p) = \frac{4c^2}{2t}$.

And the same formula for t obtains for any pair of conjugate diameters.

XLVIII. ELLIPTIC PERIPHERY.

Make $1 - \frac{c^2}{t^2} = m$; and c = circumference of circumscribing circle: then

1. Periphery $= c \cdot \left\{1 - \frac{m}{2^2} - \frac{3\,m^2}{2^2 \cdot 4^2} - \frac{3^2 \cdot 5\,m^3}{2^2 \cdot 4^2 \cdot 6^2} - \frac{3^2 \cdot 5^2 \cdot 7\,m^4}{2^2 \cdot 4^2 \cdot 6^2 \cdot 8^2}\ \&c.\right\}$

Or, by approximation, t, c, and p, still representing the same as above, and $\pi = 3{\cdot}14159$.

2. Periphery $= \pi\,(t + c)$ nearly.
3. —— $= \pi\sqrt{2}\,(t^2 + c^2)$ nearly.

4. Periphery $= \frac{1}{2}\pi \left\{ 3\sqrt{2(t^2+c^2)} - \frac{6t+p}{4} \right\}$ nearly.

5. ——— $= \frac{1}{2}\pi \left\{ 5\sqrt{2(t^2+c^2)} - \frac{35t+7p}{8} + \frac{pc^2}{16t^2} \right\}$ nearer.

6. ——— $= \frac{1}{2}\pi \left\{ t + c + \sqrt{2(t^2+c^2)} \right\}$, very nearly.

XLIX. ELLIPTIC AREA.

The letters still denoting the same as before.

1. Area $= \pi tc$.

2. ——— $= \pi tc \times$ sin. angle of intersection,

in which last expression t and c are any pair of semi-conjugate diameters.

L. ELLIPTIC ARCS.

Let t represent the semi-transverse, and c the semi-conjugate axis of any ellipse, z the distance of the ordinate from the centre: then the arc bounded by the ordinate and parallel semi-axis, will be

1. Ellip. arc $= z \left\{ 1 + \frac{c^2}{6t^4}z^2 + \frac{4t^2c^2 - c^4}{40t^8}z^4 + \frac{8t^4c^2 - 4t^2c^4 + c^6}{112t^{12}}z^6 + \text{&c.} \right\}$

Make $\frac{t^2 - c^2}{t^2} = q$: then

2. Arc $= z\sqrt{\frac{t^2 - \frac{1}{2}qz^2}{t^2 - \frac{1}{3}z^2}}$, nearly.

3. — $= \frac{1}{6} \left\{ 9z\sqrt{\frac{t^2 - \frac{1}{3}qz^2}{t^2 - \frac{1}{3}z^2}} - \left(1 + \frac{c^2z^2}{6t^4}\right) 4z \right\}$ nearly.

4. — $= \frac{15pc + (19c - 21p)y}{15pc + (9c - 21p)y} \times x$ nearly,

c being the whole axis where the arc begins, and p, x, &c. the corresponding parameter, absciss, and ordinate.

LI. ELLIPTIC SEGMENTS.

Find the area of the circular segment described, or that axis to which the base of the segment is perpendicular, and call it A: then

1. As this axis : the other axis :: A : the elliptic segment.

2. Make the height of the segment $= h$, and vertical axis of the ellipse $= v$, also put $\frac{h}{v} = q$: then

3. Elliptic seg. $= tc \times$ tabular number, answering to q in a table of circular segments.

LII. PARABOLA.

Make any abscis $= x$, ordinate $= y$, parameter $= p$, and area $= a$: then will these quantities have the following relations, viz.

1. Parameter $(p) = \frac{y^2}{x}$.
2. Abscis $(x) = \frac{y^2}{p}$.
3. Ordinate $(y) = \sqrt{px}$.
4. Area between x, y and the curve $(a) = \frac{2}{3}xy$.

LIII. PARABOLIC ARCS.

Let p = parameter, x any abscis from the vertex, and $2y$ the corresponding double ordinate; also make $\frac{2y}{p} = q$ and $\sqrt{(1+q^2)} = s$: then

1. Parabolic arc $= \frac{1}{2}p\{qs + \text{hyp. log. } (q+s)\}$
2. ——— arc $= 2y\left\{1 + \frac{q^2}{2.3} - \frac{q^3}{2.4.5} + \frac{3q^6}{2.4.6.7} - \frac{3.5q^5}{2.4.6.8.9} + \text{&c.}\right\}$
3. ——— arc $= 2y\left\{1 + \frac{q^2}{2.3}\text{A} - \frac{1.3q^2}{4.5}\text{B} + \frac{3.5q^2}{6.7}\text{C} - \text{&c.}\right\}$

where A, B, C, &c. represent the preceding terms. To which may be added the following approximations.

4. Parabolic arc $= 2\sqrt{(y^2 + \frac{4}{3}x^2)}$ nearly.
5. ——— arc $= \frac{1}{6}\left\{\sqrt{(y^2 + \frac{4}{3}x^2)} - \frac{y^2 + \frac{2}{3}x^2}{\frac{1}{4}y}\right\}$ nearly.

PARABOLIC FRUSTRUMS OR ZONES.

Let D, d represent the two ends, and a the perpendicular distance between them: then

$$\text{Area of zones} = \frac{3}{8}a \times \frac{\text{D}^3 - d^3}{\text{D}^2 - d^2}.$$

When $d = 0$, the area of the whole parabola becomes

$$\text{Area of parabola} = \frac{3}{4}a\,\text{D}.$$

LIV. HYPERBOLA.

Let t represent the semi-transverse diameter, c the semi-conjugate, x any abscis, and y its corresponding ordinate; then will these quantities have the following relations, viz.

1. Ordinate $(y) = \frac{c}{t}\sqrt{(2tx + x^2)}$.
2. Abscis $(x) = \pm\frac{t}{c}\sqrt{(c^2 + y^2)} - t$.

3. Conjugate $(c) = \frac{ty}{\sqrt{(2lx + x^2)}}$.

4. Diameter $(t) = \frac{cx}{y^2}\left\{\sqrt{(c^2 + y^2)} \pm c\right\}$

LV. HYPERBOLIC ARCS.

Let t and c be any semi-diameter and its conjugate, and y the ordinate which limits the arc to be measured, from the vertex: then

making $\frac{t^2 + c^2}{c^2} = q$, and hyp. log. $\frac{y + \sqrt{(c^2 + y^2)}}{c} = \text{A}$,

Also $\frac{1}{2}\left\{y\sqrt{(c^2 + y^2)} - c^2\text{A}\right\} = \text{B}$,

$\frac{1}{4}\left\{y^3\sqrt{(c^2 + y^2)} - 3c^2\text{B}\right\} = \text{C}$,

$\frac{1}{6}\left\{y^5\sqrt{(c^2 + y^2)} - 5c^2\text{C}\right\} = \text{D}$.

&c. &c.

The length of the arc contained between the vertex and ordinate will be,

1. Arc $= c \times \left\{\text{A} + \frac{q}{2}\text{B} - \frac{q^2}{2.4}\text{C} + \frac{3q^3}{2.4.6}\text{D} - \frac{3.5q^4}{2.4.6.8}\text{E} \text{ &c.}\right\}$

2. — $= y \times \left\{1 + \frac{t^2y^2}{6c^4} - \frac{(t^4 + 4t^2c^2)y^4}{40c^8} + \frac{(t^6 + 4t^4c^2 + 8t^2c^4)y^6}{112c^{12}} - \frac{(5t^8 + 24t^6c^2 + 48t^4c^4 + 64t^2c^6)y^8}{1152c^{16}} \text{ &c.}\right\}$

3. — $= y \times \left\{1 + \frac{t^2y^2}{6c^4}\text{A} - \frac{t^2 + 4c^2}{c^4} \cdot \frac{3y^2}{20}\text{B} + \frac{t^4 + 4t^2c^2 + 8c^4}{t^2 + 4c^2} \cdot \frac{5y^2}{14c^4}\text{C} - \frac{5t^6 + 24t^4c^2 + 48t^2c^4 + 64c^6}{t^4 + 4t^2c^2 + 8c^4} \cdot \frac{7y^2}{72c^4}\text{D}, \text{ &c.}\right\}$

Where A, B, C, &c. are the preceding terms.

To which may be added the following approximation,

4. Arc $= \frac{30c^2t + (19t^2 + 21c^2)x}{30c^2t + (9t^2 + 21c^2)x} \times y$ nearly.

LVI. HYPERBOLIC SEGMENTS.

Let t and c still represent the semi-diameter and its conjugate, x an abscis, $2y$ the double ordinate, which cuts off the segment, and z its distance from the centre: then

1. Hyp. area $= xy - tc \times$ hyp. log. of $\frac{ty + cz}{tc}$. Making $\frac{x}{2t + x} = q$, we have

2. — area $= 2xy\left\{\frac{1}{3} - \frac{q}{1.3.5} - \frac{q^2}{3.5.7} - \frac{q^3}{5.7.9} - \text{&c.}\right\}$

3. — area $= 2xy\left\{\frac{1}{3} - \frac{1}{5}\text{A}q - \frac{1}{7}\text{B}q - \frac{1}{9}\text{C}q - \text{&c.}\right\}$

where A, B, C, &c. represent the preceding terms.

To which may be added the following approximations; viz.

4. Hyp. area $= \frac{4cx}{15t}\left\{4\sqrt{(2tu + \frac{1}{4}x^2)} + \sqrt{2tu}\right\}$ nearly.

5. —— area $= \frac{4cx}{75t}\left\{21\sqrt{(2tu + \frac{1}{4}x^2)} + 4\sqrt{2tu}\right\}$ nearly.

LVII. HYPERBOLIC FRUSTRUMS OR ZONES.

The same notation remaining as above, let z be the distance of a second double ordinate 2 Y: then

1. Area of zone contained between 2*y* and 2Y $= \left\{zY - zy - tc \text{. hyp. log. of } \frac{tY + cz}{ty + cz}\right.$

LVIII. PRISMS AND CYLINDERS.

Let *p* represent the perimeter of the base, *a* its area, and *h* the height, or perpendicular altitude: then

1. Curve surface $= ph$.
2. Solidity $= ah$.

The latter formula obtains in oblique prisms and cylinders.

LIX. PYRAMIDS AND CONES.

Let *p*, *a*, *h* represent, as above, the perimeter, area, and altitude, also H the slant height: then

1. Curve surface $= \frac{1}{2}pH$.
2. Solidity $= \frac{1}{3}ah$.

The latter formula obtains in oblique pyramids and cones.

LX. FRUSTRUMS OF CONES AND PYRAMIDS.

Let A and *a* represent the areas of the two ends, P and *p* their perimeters, *h* and H the altitude and slant height: then

1. Curve surface $= \frac{1}{2}H(P + p)$.
2. Solidity $= \frac{1}{3}h(A + a) + \frac{1}{3}h\sqrt{Aa}$.

If the ends are circles or regular polygons, by putting D and *d* for the diameters, and C and *c* for the circumferences, in the former case; also S and *s* for the sides of the polygon in the latter, and T for the tabular number answering to any particular polygon: then

4. Solidity of conic frust. $= \frac{1}{3}h(D^2 + Dd + d^2) \times .78539$.
5. ——— ——— $= \frac{1}{3}h(C^2 + Cc + c^2) \times .07958$.
6. ——— of pyra. frust. $= \frac{1}{3}h(S^2 + Ss + s^2) \times T$.

LXI. PRISMOID.

Let A and a represent the areas of the two ends, α the area of the middle section, and l the length of the solid: then

Solidity $= \frac{1}{6} l (A + 4\alpha + a)$.

LXII. WEDGE.

Make L the length of the base, l the length of the edge, b the breadth of the base, h the height of the wedge: then

Solidity $= \frac{1}{2} hb (2L + l)$.

LXIII. CYLINDRIC UNGULA.

When the plane passes through the base of the cylinder, make the altitude $=$ H, the area of base $= b$, $\frac{1}{2}$ arc of base $= a$; the sine, cosine, and versed sine of $\frac{1}{2}$ arc $= s$, c and v respectively, also d diameter of cylindric base: then

1. Curve surf. ungula $= \dfrac{(ds - ac)\,H}{v}$.

2. Solidity of ungular $= \dfrac{(\frac{1}{3}s^3 - bc)\,H}{v}$.

When the cutting plane does not pass through the base. Put, in addition to the above notation, h for the least height of the ungula; H still representing the greatest height: then

1. Curve surface $= \frac{1}{2}(H + h) \times 3{\cdot}14159\, d$.
2. Solidity $= \frac{1}{2}(H + h) \times {\cdot}78539\, d^2$.
3. Solidity $= \frac{1}{2}(H + h) \times {\cdot}07958\, c^2$.

LXIV. CONIC UNGULA.

When the cutting plane passes through the opposite ends of the frustrums.

Make the diameter of the greater end of the frustrum $=$ D, of the less $= d$, and altitude $= h$, ·78539 $= p$: then

1. Solidity gr. hoof $= \dfrac{D^2 - d\sqrt{Dd}}{D - d} \times \frac{1}{3} Dhp$.

2. ——— less hoof $= \dfrac{D\sqrt{Dd} - d^2}{D - d} \times \frac{1}{3} Dhp$.

3. Diff. of hoofs $= \dfrac{(D^{\frac{3}{2}} - d^{\frac{3}{2}})^2}{D - d} \times \frac{1}{3} hp$.

4. Surface gr. hoof $= \dfrac{p\sqrt{\{\frac{1}{4}h^2 + (D - d)^2\}}}{D - d} \times \left\{ D^2 - \dfrac{D + d}{2}\sqrt{Dd} \right\}$.

5. Surf. less hoof $= \dfrac{p\sqrt{\{\frac{1}{4}h^2 + (D - d)^2\}}}{D - d} \times \left\{ \dfrac{D + d}{2}\sqrt{Dd} - d^2 \right\}$.

When the cutting plane passes through any part of the base. Put H for the height of the segment forming the base of the ungula, and from a table of circular segments computed to radius $\frac{1}{2}$, find the segment corresponding to $\frac{H}{D}$, and call it P; find also that corresponding to $\frac{H-D+d}{d}$, and call it Q: then, the same notation remaining, we have

6. Solidity lower hoof $= \left\{ P \cdot D^3 - Qd^3 \times \frac{H^{\frac{5}{2}}}{(H-D+d)^{\frac{1}{2}}} \right\} \times \frac{\frac{1}{3}h}{D-d}$.

7. ——— upper hoof $= \left\{ p(D^3-d^3) - PD^3 + Qd^3 + \frac{H^{\frac{5}{2}}}{(H-D+d)^{\frac{1}{2}}} \right\}$.

LXV. THE REGULAR BODIES.

Let s represent the side or edge of one of the equal faces: then

1. Tetraedron { surf. $= s^2 \times 1{\cdot}73205 = s^2\sqrt{3}$. solid $= s^3 \times 0{\cdot}11785 = \frac{1}{12}s^3\sqrt{2}$.
2. Hexaedron { surf. $= s^2 \times 6{\cdot}0000 = 6s^2$. solid $= s^3 \times 1{\cdot}00000 = s^3$.
3. Octaedron { surf. $= s^2 \times 3{\cdot}46410 = 2s^2\sqrt{3}$. solid $= s^3 \times 0{\cdot}47140 = \frac{1}{3}s^3\sqrt{2}$.
4. Dodecaedron { surf. $= s^2 \times 20{\cdot}64578 = 15s^2\sqrt{(1+\frac{2}{5}\sqrt{5})}$. solid $= s^3 \times 7{\cdot}66312 = 5s^3\sqrt{\frac{47+21\sqrt{5}}{40}}$.
5. Icosaedron { surf. $= s^2 \times 8{\cdot}66025 = 5s^2\sqrt{3}$. solid $= s^3 \times 2{\cdot}18169 = \frac{5}{6}s^3\sqrt{\frac{7+3\sqrt{5}}{2}}$.

LXVI. SPHERE OR GLOBE.

Let *d* represent the diameter, *c* the circumference, *s* the surface, and s the solidity of the sphere: then

1. Surface $(s) = cd = 3{\cdot}14159\,d^2 = {\cdot}3183\,c^2$.
2. Solidity $(s) = \frac{1}{6}sd = {\cdot}01688\,c^3 = {\cdot}5236\,d^3$.

LXVII. SPHERICAL SEGMENTS AND ZONES.*

The same notation remaining, let *r* represent the radius of the base of the segment, and *h* its height: then

1. Surface of seg. $= 3{\cdot}14159\,dh$.
2. Solid ——— $= {\cdot}5236\,h\,(3r^2+h^2)$.
3. ——— $= {\cdot}5236\,h\,(3d-2h)$.

For the zones, put R and *r* for the radii of its two ends, and *h* its altitude: then

4. Surf. of zone $= 3{\cdot}14159\,dh$.
5. Solid ——— $= 1{\cdot}5708\,h\,(R^2+r^2+\frac{1}{3}h^2)$.

* For spherical surfaces see art. LXXVIII.

LXVIII. CIRCULAR SPINDLE.

Put $l = \frac{1}{2}$ the length of the spindle, $m = \frac{1}{2}$ its middle diameter, a the length of the generating arc, and A the area of the generating segment, also make $\frac{l^2 + m^2}{2m} = r$: then

1. Surf. of spindle $= 2\{lr - a(r-m)\} \times 3{\cdot}14159.$
2. Solid $= 4\{\frac{1}{3}l^3 - \frac{1}{2}A(r-m)\} \times 3{\cdot}14159.$

For the middle zone of a circular spindle, make $L = \frac{1}{2}$ length of spindle, and $l = \frac{1}{2}$ length of zone; A the generating area, and r and m as above: then

3. Solid of zone $= 2\{(L^2 - \frac{1}{3}l^2)\, l - A\,(r-m)\} \times 3{\cdot}14159.$

LXIX. SPHEROID.

Let f denote the fixed axis, and r the revolving one: then making $3{\cdot}14159 = p$, and $\frac{f^2 \sim r^2}{f} = q$, we have

1. Solid of sphere $= \frac{1}{6} f r^2 p.$
2. Surf. $= fpr \left\{ 1 \mp \frac{Aq}{2.3} - \frac{3Bq}{4.5} \mp \frac{3.5.Cq}{6.7.}, \text{ &c.} \right\}.$

the upper sign having place for the prolate, and the under sign for the oblate sphere, and A, B, &c. preceding terms.

If also we make $\frac{r}{f} = z$, $\sqrt{(1 \sim z^2)} = s$, $m =$ measure in degrees, &c. of the arc whose sign is s; likewise

$p = {\cdot}01745329\ m$ in the prolate sphere.
$p = 2{\cdot}30285 \log.(s + z)$ in the oblate sphere; then

3. Surf. of sphere $= \frac{pf + rs}{2s} \times 3{\cdot}14159\ r.$

LXX. FRUSTRUMS OF SPHEROIDS.

Let f represent the fixed axis, and r the revolving one, $3{\cdot}14159 = p$, $\frac{f^2 \sim r^2}{f^2} = q$, h the height of the frustrum $\frac{4qh^2}{f^2} = z$: then, *the frustrum being cut off by two planes perpendiculars to the fixed axis, one of those planes passing through the centre of the spheroid*, we shall have

1. Surface $= prh \left\{ 1 \pm \frac{Az}{2.3} - \frac{3Bz}{4.5} \pm \frac{3.5.Cz}{6.7} - \frac{5.7.Dz}{8.9} \text{ &c.} \right\}$

when A, B, C, &c. are the preceding terms, and the upper or under sign is to be used, according as it is the oblate or prolate sphere.

For the solidity, make the diameter of greater end = D, and of the less d: then

2. Solidity = $\frac{1}{12}(2D^2+d^2)\,h \times 3{\cdot}14159$.

If the frustrum be cut off by planes, one of which passes through the fixed axis, and the other parallel to it: then, putting T = transverse axis, C the conjugate of the greater end, and t and c for those of the less end.

3. Solidity = $\frac{1}{12}(2TC+tc)\,h \times 3{\cdot}14159$.

Note. For the whole middle frustrum, the above results must be doubled.

LXXI. SEGMENTS OF SPHEROIDS.

Let f denote the fixed axis, r the revolving axis, h the height of the segment: then

When the base is parallel to the revolving axis,

1. Solidity = $\frac{r^2}{f^2}(3f \sim 2h)\,h^2 \times {\cdot}5236$.

When the base is parallel to fixed axis,

2. Solidity = $\frac{r^2}{f^2}(3r \sim 2h)\,h^2 \times {\cdot}5236$.

LXXII. ELLIPTIC SPINDLE.

Put the perpendicular axis of the ellipse = a, the parallel axis = b, length of the spindle = l, distance of the centre of spindle and ellipse = C, and area of generating segment = A: then

1. Solidity = $1{\cdot}57078 \times \left\{\frac{a^2 b}{3b^2} - 4cA\right\}$.

2. ——— = $\frac{1}{3}l \times {\cdot}7854\left\{D^2 - 4c\left(\frac{3A}{l} - D\right)\right\}$

where D is the greatest diameter of the spindle.

LXXIII. PARABOLOIDS.

Let y represent the radius of the circular base, x the altitude of the solid, and $3{\cdot}14159 = p$: then

1. Surface = $\frac{2py}{12x^2}\left\{(y^2+4x^2)^{\frac{3}{2}} - y^3\right\}$

2. Solidity = $\frac{1}{2}py^2x$.

FRUSTRUMS OF PARABOLOIDS.

Let D denote the greater diameter, d the less, P the para-

meter, h the height of the frustrum and 3·14159 $= p$: then

1. Surface $= \dfrac{(\text{R}^2 + \text{D}^2)^{\frac{3}{2}} - (\text{r}^2 + d^2)^{\frac{3}{2}}}{\text{P}} \times \frac{1}{6}p.$

2. Solidity $=$ ·3927 $h(\text{D}^2 + d^2)$,

or when $d = 0$.

3. Solidity $=$ ·3927 $h\text{D}^2$ for the whole paraboloid.

These formulæ only obtain when the base of the frustrum is perpendicular to the axis of the solid.

LXXIV. PARABOLIC SPINDLE.

Let m denote the middle diameter, and l the length of the spindle: then

1. Solidity $=$ ·418879 lm^2,

and the solidity of a middle frustrum of such solid is

2. Solidity $=$ ·05236 $l(8m^2 + 3d^2 + 4dm)$,

where d denotes the diameter of the end of the spindle.

LXXV. HYPERBOLOIDS.

Let a and c represent the semi axes of the generating hyperbola, v the distance of its base from the centre. Also, let $\text{A} = \dfrac{a^2}{\sqrt{(a^2 + c^2)}}$ be the semi-transverse of another hyperbola, whose semi-conjugate is c, the same with that of the former. Then find, by the proper formula, the area of the frustrum of this latter hyperbola, whose ends are distant from the centre by v and a, multiply this area by 3·14159 for the surface; then is,

1. Surface $= p \times \left\{ \text{V}v - ay - \text{A}c \text{ . hyp. log. of } \dfrac{\text{A}\text{V} + cv}{\text{A}y + ac} \right\}$

where $p = 3{\cdot}14159$, V and y, the ordinates of the latter hyperbola.

2. Solidity $= \frac{1}{2}\, par^2 \times \dfrac{t + \frac{2}{3}a}{t + a}$,

where $a =$ altitude, $r =$ radius of the base, to the transverse axis, and $p = 3{\cdot}14159$.

3. Solidity $= \dfrac{r^2 + d^2}{6} \times ap$,

where d is the diameter, in the middle between the base and vertex.

LXXVI. FRUSTRUMS OF HYPERBOLOIDS.

Let D and d denote the semidiameters of the two ends, a the altitude, t and c the transverse and conjugate axes, $p = 3{\cdot}14159$: then,

1. Solidity $= \frac{1}{12}pa\left\{ D^2 + d^2 - \frac{a^2c^2}{3t^2}\cdot \right\}$

2. Solidity $= (\frac{1}{12}pa\delta^2 + 4\delta^2 + d^2)$.

Where δ is the middle diameter.

LXXVII. HYPERBOLIC SPINDLE.

Let A = the generating area, D the greatest diameter, L the length of the spindle, $p = 3{\cdot}14159$: then,

1. Solidity $\frac{1}{12}p\left\{ \frac{(L^2 + D^2)A}{D} - \frac{8}{3}L^3. \right\}$

2. Solidity $\frac{1}{12}pL\left\{ D^2 + \frac{(3A - LD)4c}{L}\cdot \right\}$

Where C is the central distance.

LXXVIII. SPHERICAL LUNES.

Let d represent the diameter of the sphere, and b the greatest breadth of the lune, or the arc which measures the distance of the two great circles between which the lune is comprised, then,

1. Surface of lune $= db$, or

2. Surface —— $= \frac{as}{360^\circ}$,

where s is the whole surface of the sphere, and a the degrees, &c. in the angle of inclination of the two great circles.

LXXIX. SPHERICAL TRIANGLES.

Let d represent the diameter, s the sum of the three angles of the triangle, and $p = 3{\cdot}14159$, then

Surf. of sph. trian. $= pd^2 \times \frac{s - 180^\circ}{720}$.

LXXX. SPHERICAL POLYGONS.

The same notation remaining, and n being taken to denote the number of the angles of the polygon; then

Surf. of polygon $= pd^2 \times \frac{s - 180\,(n - 2)}{720}$.

SYNOPSIS OF MECHANICS.

LXXXI. *Descent of Bodies in free Space.*

Let s denote the space fallen through, t the time, v the velocity acquired, $g = 16\frac{1}{12}$ feet: then,

$$s = gt^2 = \frac{v^2}{4g} = \tfrac{1}{2}tv.$$

$$v = 2gt = \frac{2s}{t} = 2\sqrt{gs}.$$

$$t = \frac{v}{2g} = \frac{2s}{v} = \sqrt{\frac{s}{g}}$$

$$g = \frac{v}{2t} = \frac{s}{t^2} = \frac{v^2}{4s}.$$

LXXXII. *Descent down inclined Planes.*

The same formulæ will apply also to the descent down inclined planes, by substituting g sin. a instead of g (a being the angle of inclination of the plane) also s representing its length, and consequently s sin. a its height, that is,

$$s = gt^2 \sin. a = \frac{v^2}{4g \sin. a} = \tfrac{1}{2}tv.$$

$$v = 2gt \sin. a = \frac{2s}{t} = 2\sqrt{gs} \sin. a.$$

$$t = \frac{v}{2g \sin. a} = \frac{2s}{v} = \sqrt{\frac{s}{g \sin. a}}$$

$$\sin. a = \frac{v}{2gt} = \frac{s}{gt^2} = \frac{v^2}{4gs}.$$

LXXXIII. *Vibrations and Lengths of Pendulums.*

Let g denote the space through which a heavy body falls in 1 second, and $p = 3{\cdot}14159$ the circumference of a circle whose diameter is 1; then the length of the pendulum vibrating seconds in very small arcs, in that place being denoted by l, we have $l = \frac{2g}{p^2}$; and since the lengths of pendulums are reciprocally as the squares of the times of vibrations, we have for the length of a pendulum vibrating once in t seconds, in the same place,

$$L = \frac{2gt^2}{p^2}, \text{ and } t = p\sqrt{\frac{L}{2g}}.$$

This formula supposes an infinitely small arc; if the arc be considerable, then writing v for the versed sine of the half arc of vibration, we have

$$t = p\sqrt{\frac{l}{2g}} \times \left\{ 1 + \frac{1^2 v}{2^2.(2d)} + \frac{1^2.3^2 v^2}{2^2.4^2.(2d)^2} + \frac{1^2.3^2.5^2 v^2}{2^2.4^2.6^2.(2d)^3} + \&c. \right\}$$

In a pendulum describing a conical surface the time of revolution is equal to the time of two oscillations of a simple pendulum equal to the height of the cone, whatever may be the radius of its base.

PROJECTILES IN FREE SPACE.

LXXXIV. *On Horizontal Planes.*

Let the height due to the impetus $= m$, the velocity of projection $= v$, the time of flight $= t$, the greatest height of the projectile $= h$, the range $= r$, and the angle of projection above the plane $= a$: then

$$r = \begin{cases} \cos.a \cdot tv = \dfrac{\cos.a}{\sin.a} gt^2 = \cos.a \cdot \sin.a \cdot \dfrac{v^2}{g} = 2m \sin.2a. \\ = \cos.a \sin.a \cdot 4m = \dfrac{\cos.a}{\sin.a} 4h. \end{cases}$$

$$v = \begin{cases} \dfrac{r}{t \cos.a} = \sqrt{\dfrac{gr}{\cos.a \cdot \sin.a}} = \dfrac{gt}{\sin.a} = \dfrac{2\sqrt{gh}}{\sin.a} = 2\sqrt{mg}. \end{cases}$$

$$t = \begin{cases} 2\sin.a \sqrt{\dfrac{m}{g}} = \dfrac{v \sin.a}{g} = \sqrt{\dfrac{r \sin.a}{g \cos.a}} = 2\sqrt{\dfrac{h}{g}} = \dfrac{r}{v \cos.a}. \end{cases}$$

$$h = \begin{cases} m \sin.^2 a = \dfrac{v^2 \sin.^2 a}{4g} = \dfrac{r \sin.a}{4 \cos.a} = \dfrac{gt^2}{4}. \end{cases}$$

$$\sin.a = \frac{gt}{v} = \frac{2}{v}\sqrt{gh} = \frac{tv}{4h}.$$

LXXXV. *On Oblique Planes.*

The same notation remaining, let a denote the angle of elevation above the horizon, b the angle of inclination of the plane, and c the sum of these two angles: then

$$r = \begin{cases} \dfrac{\cos.a}{\cos.b} \cdot tv = \dfrac{\cos.a}{\sin.c} \cdot gt^2 = \dfrac{\cos.a.\sin.c}{\cos.^2 b} \cdot \dfrac{v^2}{g} = \dfrac{\cos.a.\sin.c}{\cos.^2 b} 4m = \dfrac{\cos.a}{\sin.c} 4h. \end{cases}$$

$$v = \begin{cases} \dfrac{\cos.b}{\cos.a} \cdot \dfrac{r}{t} = \cos.b \sqrt{\dfrac{gr}{\cos.a.\sin.c}} = \dfrac{\cos.b}{\sin.c} gt = \dfrac{2\cos.b}{\sin.c}\sqrt{gh} = \sqrt{4mg}. \end{cases}$$

$$t = \begin{cases} \dfrac{2\sin.c}{\cos.b}\sqrt{\dfrac{m}{g}} = \dfrac{\sin.c}{\cos.b} \cdot \dfrac{v}{g} = \sqrt{\dfrac{\sin.c}{\cos.a}} \cdot \sqrt{\dfrac{r}{g}} = 2\sqrt{\dfrac{h}{g}} = \dfrac{\cos.b}{\cos.a} \cdot \dfrac{r}{v}. \end{cases}$$

$$h = \begin{cases} \dfrac{\sin.^2 c}{\cos.b} m = \dfrac{\sin.^2 c}{\cos.^2 b} \cdot \dfrac{v^2}{4g} = \dfrac{\sin.c}{\cos.a} \cdot \dfrac{r}{4} = \dfrac{gt^2}{4}. \end{cases}$$

LXXXVI. *Of the Centre of Gravity of Bodies.*

Let GO denote the distance of the centre of gravity from the vertex, x, y, and z any absciss, corresponding ordinate, and arc: then

1. for a line ..... $GO = \dfrac{\text{flu.} x\sqrt{(\dot{x}^2 + \dot{y}^2)}}{\text{flu.} \sqrt{(\dot{x}^2 + \dot{y}^2)}}$.
2. for a plane ..... $GO = \dfrac{\text{flu.} yx\dot{x}}{\text{flu.} y\dot{x}}$.
3. for a curve surf. $GO = \dfrac{\text{flu.} yx\dot{z}}{\text{flu.} y\dot{z}}$.
4. for a solid ..... $GO = \dfrac{\text{flu.} y^2 x\dot{x}}{\text{flu.} y^2\dot{x}}$.

Hence are determined the following particular cases, in which a denotes the line joining the vertex and middle of the base of any figure.

1. A plane trian. ..... GO $= \frac{3}{4}a$.
2. A right cone ..... GO $= \frac{3}{4}a$.
3. A circular sector GO from centre $= \frac{2 \text{ chord.} \times \text{rad.}}{3 \text{ arc}}$.
4. Seg. of sphere GO vertex $= \frac{8 \text{ rad.} - 3a}{12 \text{ rad.} - 4a}\, a$.
5. The semi-sphere or semi-spheroid GO $= \frac{5}{8}a$.
6. Paraboloid..... $= \frac{2}{3}a$.

LXXXVII. *Of the Centre of Gyration.*

Let SR denote the distance of the centre of gyration from the axis of motion; then $\sqrt{\frac{\text{flu.}x^2\dot{s}}{\dot{s}}}$; where s denotes the body, and $\dot{s}$ its fluxion, at the distance x from the axis.

Hence are derived the following particular cases.

1. This in the case of a right line becomes, line $\times \sqrt{\frac{1}{3}}$.
2. The plane of a circle, or cylinder, revolving about the axis, SR = radius $\times \sqrt{\frac{1}{2}}$.
3. The periphery of a circle, about the diameter, SR = radius $\times \sqrt{\frac{1}{2}}$.
4. A wheel with a very thin rim, revolving about its axle, SR = radius.
5. The plane of a circle, about the diameter, SR $= \frac{1}{2}$ radius.
6. The surface of a sphere, about the diameter, SR = radius $\times \sqrt{\frac{3}{5}}$.
7. A globe, about the diameter, SR = radius $\times \sqrt{\frac{2}{5}}$.
8. In a cone, about the axis, SR = radius $\times \sqrt{\frac{3}{10}}$.

LXXXVIII. *Centre of Oscillation.*

Let SO denote the distance of the centre of oscillation from the point of suspension; then $\text{SO} = \frac{\text{flu.}\, x^2\dot{s}}{\text{flu.}\, x\dot{s}}$.

Hence are derived the following particular cases, of the centres of oscillation for the following figures, suspended by their vertices and vibrating flatwise, viz.

1. Right line or cylinder, SO $= \frac{2}{3}$ of its length.
2. Isosceles triangle, SO $= \frac{1}{2}$ of its altitude.
3. Circle, SO $= \frac{1}{2}$ radius.
4. Common parabola, SO $= \frac{1}{2}$ of its altitude.
5. Any parabola SO $= \frac{2m+1}{3m+1} \times$ its altitude.

Bodies vibrating laterally or sideways.

6. In a circle, so $= \frac{1}{4}$ of diameter.
7. In a rectangle suspended by one angle, so $= \frac{1}{3}$ of diagonal.
8. Parabola suspended by its vertex, so $= \frac{1}{3}$ axis $+ \frac{1}{4}$ parameter.
9. Parabola suspended by middle of its base, so $= \frac{2}{3}$ axis $+ \frac{1}{4}$ parameter.
10. In a sector of a circle, so $= \frac{3 \text{ arc} \times \text{radius}}{4 \text{ chord}}$.
11. In a cone, so $= \frac{4}{5}$ axis $+ \frac{(\text{radius of base})^2}{5 \text{ axis}}$.
12. In a sphere, so $=$ rad. $+ d + \frac{2 \text{ rad.}^2}{5(d + \text{rad.})}$.

Where d is the length of the thread by which it is suspended.

Centre of Percussion.

The same formulæ, as given above for the centre of oscillation, will answer for the *centre of percussion* when the body revolves about a fixed point; and when it moves in a right line, they will be the same as those given for the *centre of gravity*.

LXXXIX. FORMULÆ RELATING TO FORCES.

Let f and F be any two constant accelerative forces acting on any body, during the times t and T respectively, at the end of which are generated the velocities v and V, and described the spaces s and S: then, in

Constant Forces,

1. $\frac{s}{S} = \frac{tv}{TV} = \frac{t^2 f}{T^2 F} = \frac{v^2 F}{V^2 f}$.
2. $\frac{v}{V} = \frac{ft}{FT} = \frac{sT}{St} = \sqrt{\frac{fs}{FS}}$.
3. $\frac{t}{T} = \frac{Fv}{fV} = \frac{sV}{Sv} = \sqrt{\frac{Fs}{fS}}$.
4. $\frac{f}{F} = \frac{Tv}{tV} = \frac{T^2 s}{t^2 S} = \frac{v^2 s}{V^2 S}$.

When one of the forces, as F, is gravity, and T $= 1''$, then S $= 16\frac{1}{12}$ feet $= g$, and V $= 32\frac{1}{6} = 29$, in which case these become

5. $s = \frac{1}{2}vt = gft^2 = \frac{v^2}{4gf}$.
6. $v = \frac{2s}{t} = 2gft = 2\sqrt{gfs}$.
7. $t = \frac{2s}{v} = \frac{v}{2gf} = \sqrt{\frac{s}{gf}}$.
8. $f = \frac{v}{2gt} = \frac{s}{gt^2} = \frac{v^2}{4gs}$.

And from these are deduced the following, for

Variable Forces.

9. $\dot{s} = v\dot{t} = \frac{v\dot{v}}{2gf}$.

10. $\dot{v} = 2gf\dot{t} = \frac{2gf\dot{s}}{v}$.

11. $\dot{t} = \frac{\dot{s}}{v} = \frac{\dot{v}}{2gf}$.

12. $f = \frac{v\dot{v}}{2g\dot{s}} = \frac{\dot{v}}{2g\dot{t}}$.

FLUXIONAL FORMULÆ.

XC. *Of Simple and Exponential Quantities.*

1. Fluxion of $xy = \dot{x}y + \dot{y}x$.
2. ——— $xyz = \dot{x}yz + \dot{y}xz + \dot{z}xy$.
3. ——— $x^n = nx^{n-1}\dot{x}$.
4. ——— $x^{\frac{1}{n}} = \frac{1}{n}x^{\frac{1}{n}-1}\dot{x}$.
5. ——— $\frac{x}{y} = \frac{\dot{x}y - \dot{y}x}{y^2}$.
6. ——— h.log.$x = \frac{\dot{x}}{x}$.
7. ——— $e^x = e^x\dot{x} \times \log. e$.
8. ——— $y^x = y^x\dot{x} \times \log. y + xy^{x-1}\dot{y}$.

XCI. *Of Trigonometrical Quantities.*

1. Fluxion of arc to sin. $x = \frac{\dot{x}}{\sqrt{(1-x^2)}}$.
2. ——— cos. $x = \frac{-\dot{x}}{\sqrt{(1-x^2)}}$.
3. ——— vers. $x = \frac{\dot{x}}{\sqrt{(2x-x^2)}}$.
4. ——— covers. $x = \frac{-\dot{x}}{\sqrt{(2x-x^2)}}$.
5. ——— tan. $x = \frac{\dot{x}}{1+x^2}$.
6. ——— cot. $x = \frac{-\dot{x}}{1+x^2}$.
7. ——— sec. $x = \frac{\dot{x}}{x\sqrt{(x^2-1)}}$.
8. ——— cosec. $x = \frac{-\dot{x}}{x\sqrt{(x^2-1)}}$.

9. Fluxion sin. $\varphi = \dot{\varphi} \cos. \varphi.$
10. ——— cos. $\varphi = -\dot{\varphi} \sin. \varphi.$
11. ——— vers. $\varphi = \dot{\varphi} \sin. \varphi.$
12. ——— covers. $\varphi = -\dot{\varphi} \cos. \varphi.$
13. ——— tan. $\varphi = \dot{\varphi} \sec.^2 \varphi.$
14. ——— cot. $\varphi = -\dot{\varphi} \operatorname{cosec.}^2 \varphi.$
15. ——— sec. $\varphi = \dot{\varphi} \tan. \varphi \sec. \varphi.$
16. ——— cosec. $\varphi = -\dot{\varphi} \cot. \varphi \operatorname{cosec.} \varphi.$

XCII. *Fluxional Formulæ relating to Rectifications, Quadratures, &c.*

Let x denote the abscis of any curve, y the corresponding ordinate, and z the arc; f the fluent of any expression, and $p = 3{\cdot}1416$.

1. *Tangents*, Subtangent $= \frac{\dot{x}}{\dot{y}}$.
2. *Rectification*, Arc $= f\sqrt{(\dot{x}^2 + \dot{y}^2)}$.
3. *Quadrature*, Area $= fy\dot{x}$.
4. *Surface of solids*, Surf. $= f2py\sqrt{(\dot{x}^2 + \dot{y}^2)}$.
5. *Contents of solids*, Cont. $= fpy^2\dot{x}$.
6. *Rad. of curvature*, Rad. $= \frac{\dot{z}^3}{\dot{y}\ddot{x} - \dot{x}\ddot{y}}$.

XCIII. TABLE OF FLUENTS.

	Fluxions.	Fluents.
1.	$x^{n-1}\dot{x}$	$= \frac{1}{n} x^n.$
2.	$(a \pm x^n)^{m-1} x^{n-1} \dot{x}$	$= \pm \frac{1}{mn} (a \pm x^n)^m.$
3.	$\frac{x^{mn-1}\dot{x}}{(a \pm x^n)^{m+1}}$	$= + \frac{1}{mna} \times \frac{x^{mn}}{(a \pm x^n)^m}.$
4.	$\frac{(a \pm x^n)^{m-1}}{x^{mn+1}}$	$= - \frac{1}{mna} \times \frac{(a \pm x^n)^m}{x^{mn}}.$
5.	$\left(\frac{m\dot{x}}{x} + \frac{n\dot{y}}{y}\right) x^m y^n$	$= + x^m y^n.$
6.	$\left(\frac{m\dot{x}}{x} + \frac{n\dot{y}}{y} + \frac{p\dot{z}}{z}, \text{ &c.}\right) x^m y^n z^p, \text{&c.}$	$= x^m y^n z^p, \text{ &c.}$
7.	$\frac{\dot{x}}{x(a \pm x^n)}$	$= \frac{1}{na} \times \log. \frac{x^n}{a \pm x^n}.$
8.	$\frac{x^{n-1}\dot{x}}{a - x^{2n}}$	$= \frac{1}{2n\sqrt{a}} \times \log. \frac{\sqrt{a} + x^n}{\sqrt{a} - x^n}.$

	Fluxions.	Fluents.
9.	$\frac{x^{n-1}\dot{x}}{a+x^{2n}}$	$= \begin{cases} \frac{1}{n\sqrt{a}} \times \text{arc. tan.} \frac{x^n}{\sqrt{a}}. \\ \frac{1}{2n\sqrt{a}} \times \text{arc. cos.} \frac{a-x^{2n}}{a+x^{2n}}. \end{cases}$
10.	$\frac{x^{n-1}\dot{x}}{\sqrt{(a \pm x^{2n})}}$	$= \frac{1}{n} \times \log. \{x^n + \sqrt{(\pm a + x^{2n})}\}.$
11.	$\frac{x^{n-1}\dot{x}}{\sqrt{(a-x^{2n})}}$	$= \frac{1}{n} \times \text{arc.sin.} \frac{x^n}{\sqrt{a}}$, or $\frac{1}{2n} \times \text{arc.vers.} \frac{2x^{2n}}{a}.$
12.	$\frac{\dot{x}}{x\sqrt{(a \pm x^n)}}$	$= \frac{1}{n\sqrt{a}} \times \log. \frac{\pm\sqrt{(a \pm x^n)} \mp \sqrt{a}}{\sqrt{(a \pm x^n)} + \sqrt{a}}.$
13.	$\frac{\dot{x}}{x\sqrt{(x^n-a)}}$	$= \frac{2}{n\sqrt{a}} \times \text{arc.s.} \frac{\sqrt{x^n}}{\sqrt{a}}$, or $\frac{1}{n\sqrt{a}} \times \text{arc.c.} \frac{2a-x^n}{x^n}.$
14.	$\dot{x}\sqrt{(ax-x^2)}$	$= \frac{1}{2}$ cir. seg. to diam. d and vers. x.
15.	$\frac{\dot{x}}{\pm a \mp bx^2}$	$= \pm \frac{1}{\sqrt{ab}} \times \log. \frac{\sqrt{a} + \sqrt{bx^2}}{\sqrt{(\pm a \mp bx^2)}}.$
16.	$\frac{\dot{x}}{a+bx^2}$	$= + \frac{1}{\sqrt{ab}} \times \text{arc tan.} \sqrt{\frac{bx^2}{a}}.$
17.	$\frac{\dot{x}}{x^{\frac{1}{2}}(\pm a \mp bx)}$	$= \pm \frac{2}{\sqrt{ab}} \times \log. \frac{\sqrt{a} + \sqrt{bx}}{\sqrt{(\pm a \mp bx)}}.$
18.	$\frac{\dot{x}}{x^{\frac{1}{2}}(a+bx)}$	$= + \frac{2}{\sqrt{ab}} \times \text{arc. tan.} \sqrt{\frac{bx}{a}}.$
19.	$\frac{\dot{x}}{\sqrt{(bx^2 \pm a)}}$	$= + \frac{1}{\sqrt{b}} \times \log. \{\sqrt{bx^2} + \sqrt{(bx^2 \pm a)}\}.$
20.	$\sqrt{\frac{\dot{x}}{(a-bx^2)}}$	$= + \frac{1}{\sqrt{b}} \times \text{arc. tan.} \sqrt{\frac{bx^2}{a-x^2}}.$
21.	$\frac{\dot{x}}{x^{\frac{1}{2}}\sqrt{(bx \pm a)}}$	$= + \frac{2}{\sqrt{b}} \times \log. \{\sqrt{bx} + \sqrt{(bx \pm a)}\}.$
22.	$\frac{\dot{x}}{x^{\frac{1}{2}}\sqrt{(a-bx)}}$	$= + \frac{2}{\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx}{a-bx}}.$
23.	$\frac{\dot{x}}{x\sqrt{(a \pm bx)}}$	$= - \frac{2}{\sqrt{a}} \times \log. \frac{\sqrt{a} + \sqrt{(a \pm bx)}}{\sqrt{x}}.$
24.	$\frac{\dot{x}}{x\sqrt{(bx-a)}}$	$= + \frac{2}{\sqrt{a}} \times \text{arc tang.} \sqrt{\frac{bx-a}{x}}.$
25.	$\frac{\dot{x}}{x\sqrt{(a \pm bx^2)}}$	$= - \frac{1}{\sqrt{a}} \times \log. \frac{\sqrt{a} + \sqrt{(a \pm bx^2)}}{x}.$
26.	$\frac{\dot{x}}{x\sqrt{(bx^2-a)}}$	$= + \frac{1}{\sqrt{a}} \times \text{arc tan.} \sqrt{\frac{bx^2-a}{a}}.$
27.	$\frac{x^2\dot{x}}{\pm a \mp bx^2}$	$= \mp \frac{x}{b} \pm \frac{\sqrt{a}}{b\sqrt{b}} \times \log. \frac{\sqrt{a} + \sqrt{bx^2}}{\sqrt{(\pm a \mp bx^2)}}.$
28.	$\frac{x^2\dot{x}}{a+bx^2}$	$= + \frac{x}{b} - \frac{\sqrt{a}}{b\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx^2}{a}}.$

	Fluxions.	Fluents.
29.	$\frac{x^{\frac{1}{2}}\dot{x}}{\pm a \mp bx}$	$= \mp \frac{2x^{\frac{1}{2}}}{b} \pm \frac{2\sqrt{a}}{b\sqrt{b}} \times \log. \frac{\sqrt{a} + \sqrt{bx}}{\sqrt{(\pm a \mp bx)}}.$
30.	$\frac{x^{\frac{1}{2}}\dot{x}}{a + bx}$	$= + \frac{2x^{\frac{1}{2}}}{b} - \frac{2\sqrt{a}}{b\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx}{a}}.$
31.	$\frac{x^2\dot{x}}{\sqrt{(bx^3 \pm a)}}$	$= \begin{cases} + \frac{x\sqrt{(bx^3 \pm a)}}{2b} \mp \frac{a}{2b\sqrt{b}} \times \log. \{\sqrt{bx^2} + \\ \sqrt{(bx^3 \pm a)}\}. \end{cases}$
32.	$\frac{x^2\dot{x}}{\sqrt{(a - bx^3)}}$	$= - \frac{x\sqrt{(a - bx^3)}}{2b} + \frac{a}{2b\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx^3}{a - bx^3}}.$
33.	$\dot{x}\sqrt{(bx^2 \pm a)}$	$= \begin{cases} + \frac{1}{2}x\sqrt{(bx^2 \pm a)} \pm \frac{a}{2\sqrt{b}} \times \log. \\ \{\sqrt{bx^2} + \sqrt{(bx^2 \pm a)}\}. \end{cases}$
34.	$\dot{x}\sqrt{(a - bx^2)}$	$= \begin{cases} + \frac{1}{2}x\sqrt{(a - bx^2)} + \frac{a}{2\sqrt{b}} \times \text{arc tan.} \\ \sqrt{\frac{bx^2}{a - bx^2}}. \end{cases}$
35.	$\frac{x^{\frac{1}{2}}\dot{x}}{\sqrt{(bx \pm a)}}$	$= \begin{cases} + \frac{x^{\frac{1}{2}}\sqrt{(bx \pm a)}}{b} \mp \frac{a}{b\sqrt{b}} \times \log. \{\sqrt{bx} \\ + \sqrt{(bx \pm a)}\}. \end{cases}$
36.	$\frac{x^{\frac{1}{2}}\dot{x}}{\sqrt{(a - bx)}}$	$= - \frac{x^{\frac{1}{2}}\sqrt{(a - bx)}}{b} + \frac{a}{b\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx}{a - bx}}.$
37.	$x^{\frac{1}{2}}\dot{x}\sqrt{(bx \pm a)}$	$= \begin{cases} + \frac{x^{\frac{1}{2}}(2bx \pm a)\sqrt{(bx \pm a)}}{4b} - \frac{a^2}{4b\sqrt{b}} \times \\ \log. \{\sqrt{bx} + \sqrt{(bx \pm a)}\}. \end{cases}$
38.	$x^{\frac{1}{2}}\dot{x}\sqrt{(a - bx)}$	$= \begin{cases} + \frac{x^{\frac{1}{2}}(2bx - a)\sqrt{(a - bx)}}{4b} + \frac{a^2}{4b\sqrt{b}} \times \\ \text{arc tan.} \sqrt{\frac{bx}{a - bx}}. \end{cases}$
39.	$\frac{\dot{x}\sqrt{(bx \pm a)}}{x^{\frac{1}{2}}}$	$= \begin{cases} + x^{\frac{1}{2}}\sqrt{(bx \pm a)} \pm \frac{a}{\sqrt{b}} \times \log. \{\sqrt{bx} \\ + \sqrt{(bx \pm a)}\}. \end{cases}$
40.	$\frac{\dot{x}\sqrt{(a - bx)}}{x^{\frac{1}{2}}}$	$= + x^{\frac{1}{2}}\sqrt{(a - bx)} + \frac{a}{\sqrt{b}} \times \text{arc tan.} \sqrt{\frac{bx}{a - bx}}.$
41.	$\frac{\dot{x}\sqrt{(a \pm bx)}}{x}$	$= 2\sqrt{(a \pm bx)} - 2a^{\frac{1}{2}} \times \log. \frac{\sqrt{a} + \sqrt{(a \pm bx)}}{\sqrt{x}}.$
42.	$\frac{\dot{x}\sqrt{(bx - a)}}{x}$	$= 2\sqrt{(bx - a)} - 2a^{\frac{1}{2}} \times \text{arc. tan.} \sqrt{\frac{bx - a}{a}}.$
43.	$\frac{\dot{x}\sqrt{(a \pm bx^2)}}{x}$	$= + \sqrt{(a \pm bx^2)} - a^{\frac{1}{2}} \times \log. \frac{\sqrt{a} + \sqrt{(a \pm bx^2)}}{x}.$
44.	$\frac{\dot{x}\sqrt{(bx^2 - a)}}{x}$	$= + \sqrt{(bx^2 - a)} - a^{\frac{1}{2}} \times \text{arc. tan.} \sqrt{\frac{bx^2 - a}{a}}.$

	Fluxions.	Fluents.
45.	$\frac{\dot{x}}{a+bx+cx^2}$	$= \frac{2}{\sqrt{(4ac-b^2)}} \times \text{arc. tan.} \frac{b+2cx}{\sqrt{(4ac-b^2)}}.$
46.	$\frac{\dot{x}}{a+bx-cx^2}$	$= \frac{2}{\sqrt{(4ac+b^2)}} \times \log. \frac{\sqrt{(4ac+b^2)}-(b-2cx)}{\sqrt{(a+bx-cx^2)}}.$
47.	$\frac{\dot{x}}{x(a+bx+cx^2)}$	$= \begin{cases} -\frac{1}{a} \times \log. \frac{\sqrt{(a+bx+cx^2)}}{x}. \\ -\frac{b}{a\sqrt{(4ac-b^2)}} \times \text{arc. tan.} \frac{b+2cx}{\sqrt{(4ac-b^2)}}. \end{cases}$
48.	$\frac{\dot{x}}{x(a+bx-cx^2)}$	$= \begin{cases} -\frac{1}{a} \times \log. \frac{\sqrt{(a+bx-cx^2)}}{x}. \\ -\frac{b}{a\sqrt{(4ac+b^2)}} \times \log. \frac{\sqrt{(4ac+b^2)}-(b-2cx)}{\sqrt{(a+bx-cx^2)}}. \end{cases}$
49.	$\frac{x\dot{x}}{a+bx+cx^2}$	$= \begin{cases} +\frac{1}{2c} \times \log. (a+bx+cx^2) \\ -\frac{b}{c\sqrt{(4ac-b^2)}} \times \text{arc tan.} \frac{b+2cx}{\sqrt{(4ac-b^2)}}. \end{cases}$
50.	$\frac{x\dot{x}}{a+bx-cx^2}$	$= \begin{cases} -\frac{1}{2c} \times \log. (a+bx-cx^2) \\ +\frac{b}{c\sqrt{(4ac+b^2)}} \times \log. \frac{\sqrt{(4ac+b^2)}-(b-2cx)}{\sqrt{(a+bx-cx^2)}}. \end{cases}$
51.	$\dot{x}\sqrt{(a+bx+cx^2)}$	$= \begin{cases} +\frac{(2cx+b)\sqrt{(a+bx+cx^2)}}{4c} + \frac{4ac-b^2}{8c\sqrt{c}} \times \\ \log. \{2cx+b+2c^{\frac{1}{2}}\sqrt{(a+bx+cx^2)}\}. \end{cases}$
52.	$\dot{x}\sqrt{(a+bx-cx^2)}$	$= \begin{cases} +\frac{(2cx-b)\sqrt{(a+bx-cx^2)}}{4} + \frac{4ac+b^2}{8c\sqrt{c}} \times \\ \text{arc tan.} \frac{2cx-b}{2c^{\frac{1}{2}}\sqrt{(a+bx-cx^2)}}. \end{cases}$
53.	$\frac{(A+Bx)\dot{x}}{a+bx+cx^2}$	$= \begin{cases} +\frac{B}{2c} \times \log. (a+bx+cx^2) \\ +\frac{2cA-bB}{c\sqrt{(4ac-b^2)}} \times \text{arc tan.} \frac{b+2cx}{\sqrt{(4ac-b^2)}}. \end{cases}$
54.	$\frac{(A+Bx)\dot{x}}{a+bx-cx^2}$	$= \begin{cases} -\frac{B}{2c} \times \log. (a+bx-cx^2) \\ +\frac{2cA+bB}{c\sqrt{(4ac+b^2)}} \times \log. \frac{\sqrt{(4ac+b^2)}-(b-2cx)}{\sqrt{(a+bx-cx^2)}}. \end{cases}$
55.	$\frac{\dot{x}}{\sqrt{(a+bx+cx^2)}}$	$= \begin{cases} +\frac{1}{\sqrt{c}} \times \log. \{2cx+b+2c^{\frac{1}{2}} \\ \sqrt{(a+bx+cx^2)}\}. \end{cases}$
56.	$\frac{\dot{x}}{\sqrt{(a+bx-cx^2)}}$	$= +\frac{1}{\sqrt{c}} \times \text{arc tan.} \frac{2cx-b}{2c^{\frac{1}{2}}\sqrt{(a+bx-cx^2)}}.$
57.	$\frac{\dot{x}}{x\sqrt{(a+bx+cx^2)}}$	$= -\frac{1}{\sqrt{a}} \times \log. \left\{ \frac{2a+bx+2a^{\frac{1}{2}}\sqrt{(a+bx+cx^2)}}{x}. \right\}$
58.	$\frac{\dot{x}}{x\sqrt{(-a+bx+cx^2)}}$	$= +\frac{1}{\sqrt{a}} \times \text{arc tan.} \frac{2a^{\frac{1}{2}}\sqrt{(-a+bx+cx^2)}}{2a-bx}.$

	Fluxions.	Fluents.
59.	$\dot{x}\sqrt{(a+bx+cx^2)}$	$+\frac{(2cx+b)\sqrt{(a+bx+cx^2)}}{4c}$ $+\frac{4ac-b^2}{8c\sqrt{c}} \times \log.\{2cx+b+2c^{\frac{1}{2}}\sqrt{(a+bx+cx^2)}.\}$
60.	$\dot{x}\sqrt{(a+bx-cx^2)}$	$+\frac{(2cx-b^2)\sqrt{(a+bx-cx^2)}}{4c}.$ $+\frac{4ac+b^2}{8c\sqrt{c}} \times \text{arc tan.}\frac{2cx-b}{2c^{\frac{1}{2}}\sqrt{(a+bx-cx^2)}}$
61.	$\frac{\dot{x}\sqrt{(a+bx+cx^2)}}{x}$	$+\sqrt{(a+bx+cx^2)}.$ $+\frac{b}{2\sqrt{c}} \times \log.\{2cx+b+2c^{\frac{1}{2}}\sqrt{(a+bx+cx^2)}.\}$ $-\sqrt{a} \times \log.\left\{\frac{2a+bx+2a^{\frac{1}{2}}\sqrt{(a+bx+cx^2)}}{x}.\right\}$
62.	$\frac{\dot{x}\sqrt{(a+bx-cx^2)}}{x}$	$+\sqrt{(a+bx-cx^2)}.$ $+\frac{b}{2\sqrt{c}} \times \text{arc tan.}\frac{2cx-b}{2c^{\frac{1}{2}}\sqrt{(a+bx-cx^2)}}.$ $-\sqrt{a} \times \log.\left\{\frac{2a+bx+2a^{\frac{1}{2}}\sqrt{(a+bx-cx^2)}}{x}.\right\}$
63.	$\frac{\dot{x}\sqrt{(-a+bx+cx^2)}}{x}$	$+\sqrt{(-a+bx+cx^2)}.$ $+\frac{b}{2\sqrt{c}} \times \log.\{2cx+b+2c^{\frac{1}{2}}\sqrt{(-a+bx+cx^2)}.\}$ $-\sqrt{a} \times \text{arc tan.}\frac{2a^{\frac{1}{2}}\sqrt{(-a+bx+cx^2)}}{2a-bx}.$
64.	$\frac{\dot{x}\sqrt{(-a+bx-cx^2)}}{x}$	$+\sqrt{(-a+bx-cx^2)}.$ $+\frac{b}{2\sqrt{c}} \times \text{arc tan.}\frac{2cx-b}{2c^{\frac{1}{2}}\sqrt{(-a+bx-cx^2)}}.$ $-\sqrt{a}\,\text{arc tan.}\frac{2a^{\frac{1}{2}}\sqrt{(-a+bx-cx^2)}}{2a-bx}.$
65.	$a^{mx}x^n\dot{x}$	$=\frac{a^{mx}}{m\log.a}\left\{x^n-\frac{nx^{n-1}}{m\log.a}+\frac{n(n-1)x^{n-2}}{m^2\log.^2a}\right.$ $\left.-\frac{n(n-1)(n-2)x^{n-3}}{m^3\log.^3a}+\text{&c. &c.}\right\}$
66.	$x^m\log.^nx\dot{x}$	$=\frac{x^{m+1}}{m+1}\left\{\log.^nx-\frac{n}{m+1}\log.^{n-1}x\right.$ $+\frac{n(n-1)}{(m+1)^2}\log.^{n-2}x-\frac{n(n-1)(n-2)}{(m+1)^3}\log.^{n-3}x$ $\left.+\frac{n(n-1)(n-2)}{(m+1)^4}\log.^{n-4}x-\text{&c. &c.}\right\}$

SYNOPSIS OF ASTRONOMY.

Elements of Planets, &c.

Names and characters.	Mean dist. from the sun, that of the earth being unity.	Mean dist. in English miles.	Duration of sidereal revolution.	Ratio of eccentricity to semi-axis major.	Mean longitude, Jan. 1, 1801.	Longitude of perihelion.
Sun ☉						
Mercury ☿	0·387098	36 millions	87^d 23^h 15′ 43″·9	·2055149	5^s 3° 56′ 27″·0	2^s 14° 21′ 46″·9
Venus ♀	0·723332	68 ditto	224^d 16^h 49′ 11″·2	·0068529	0^s 10° 44′ 35″·0	4^s 8° 37′ 0″·9
Earth ⊕	1·000000	93 ditto	365^d 6^h 9′ 11″·5	·0168531	3^s 10° 9′ 13″·0	3^s 9° 30′ 5″·0
Mars ♂	1·523693	142 ditto	686^d 23^h 30′ 39″	·0931340	2^s 4° 7′ 2″·3	11^s 2° 24′ 23″·9
Vesta ⚶	2·373000	225 ditto	1335^d 4^h 55′ 12″	·0932200	8^s 27° 25′ 0″·8	8^s 9° 43′ 1″·2
Juno ⚵	2·667163	253 ditto	1590^d 23^h 42′ 43″	·2549440	9^s 20° 30′ 6″	1^s 23° 18′ 41″·0
Ceres ⚳	2·767406	263 ditto	1681^d 12^h 9′ 0″	·0783486	8^s 24° 45′ 4″·6	4^s 26° 39′ 38″·9
Pallas ⚴	2·767592	265 ditto	1681^d 17^h 0′ 58″	·2453840	9^s 29° 52′ 58″	4^s 1° 7′ 0″
Jupiter ♃	5·202791	485 ditto	4332^d 14^h 18′ 41″	·0481784	3^s 22° 36′ 1″	0^s 11° 8′ 35″·1
Saturn ♄	9·538770	890 ditto	10758^d 23^h 16′ 34″·2	·0561683	4^s 15° 20′ 31″·5	2^s 29° 8′ 57″·9
Uranus ♅	19·183305	1800 ditto	30688^d 16^h 30′ 13″	·0466703	5^s 27° 47′ 17″	5^s 17° 19′ 41″
Moon ☾	1·000000	237000 from the earth	27^d 7^h 43′ 11″·5	·0548553	3^s 21° 36′ 42″	8^s 26° 6′ 5″·1

Names and characters.	Motion of Apsides in 100 years.	Inclination of orbit to ecliptic.	Variation of inclination in 100 years.	Intersection of orbit with ecliptic.	Annual motion of the nodes.	Rotation on axis.	Inclination of axis to ecliptic.
Sun ☉	.....	.....	.....	.....	.....	25d 14h 8′	82° 30′
Mercury ☿	1° 33′ 16″·6	7° 0′ 9″·1	18″·2 increase.	1s 15° 57′ 30″·9	42″·3	24h 5 58‴·3	unknown.
Venus ♀	1° 19′ 2″·2	3° 23′ 32″·7	4″·6 decrease.	2s 14° 52′ 38″·9	31″·4	23h 21′ 7‴·2	unknown.
Earth ⊕	19′ 40″·8	.....	.....	.....	.....	23h 56′ 4″·1	66° 32′ 3″
Mars ♂	1° 51′ 3″·5	1° 51′ 3″·2	.....	1s 18° 1′ 18″	26″·8	24h 39′ 21‴·3	59° 41′ 49″·2
Vesta ⚶	.....	7° 8′ 45″·9	.....	3s 13° 1′ 0″·1	.....	.....	.....
Juno ⚵	.....	21° 0′ 0″	.....	5s 21° 6′ 37″	.....	.....	.....
Ceres ⚳	.....	10° 37′ 34″	.....	2s 20° 55′ 2″	.....	.....	.....
Pallas ⚴	.....	34° 50′ 40″	.....	5s 22° 28′ 57″	.....	.....	.....
Jupiter ♃	1° 34′ 38″·8	1° 18′ 51″·5	22″·6 decrease.	3s 8° 25′ 34″·2	34″·3	9h 55′ 49‴·7	86° 54′ 30″
Saturn ♄	1° 55′ 47″·1	2° 29′ 38″·1	15″·5 decrease.	3s 21° 55′ 46″·5	27″·4	10h 16′ 19‴·2	58° 41′
Uranus ♅	1° 29′ 2″	0° 46′ 26″	.....	2s 12° 51′ 14″	1′ 2″·75	.....	.....
Moon ☾	.....	5° 9′	.....	0s 15° 55′ 26″	.....	27d 7h 43′ 4″·7	88° 29′ 49″

Names and characters.	Mean diameter in English miles	Mean apparent diameter.	Density, that of water being 1.	Mass, that of the sun being 1.	Proportion of light and heat.	Mean arc of retrogradation.	Mean duration of retrogradation.
Sun ☉	882270	32′ 3″·3	1·25	$\frac{1}{1}$			
Mercury ☿	3123	6″·9	9·16	$\frac{1}{2025810}$	6·68	13° 30′	23 days.
Venus ♀	7702	27″·0	5·73	$\frac{1}{356632}$	1·91	16° 12′	42 days.
Earth ⊕	7916		4·95	$\frac{1}{337086}$	1·00		
Mars ♂	4398		3·28	$\frac{1}{2546320}$	0·43	16° 12′	73 days.
Vesta ⚶	238*	0″·5			0·11		
Juno ⚵	1425	3″·057			0·10		
Ceres ⚳	1024				0·09		
Pallas ⚴	2099				0·09		
Jupiter ♃	91522	38″·2	1·037	$\frac{1}{1067·09}$	0·037	9° 54′	121 days.
Saturn ♄	76068	18″	·450	$\frac{1}{3534·08}$	0·011	6° 18′	139 days.
Uranus ♅	35112	3″·2	1·001	$\frac{1}{20016}$	0·003		
Moon ☾	2160	31′ 26″·5	2·89	$\frac{1}{23090391}$			

The above particulars are taken principally from the last edition of Laplace's Exposition du Systeme du Monde.

* The mean and apparent diameters of the new planets are variously stated; the above are chiefly from Schroeter's observations.

TABLE IX.

OF THE WEIGHTS AND MEASURES

OF DIFFERENT NATIONS.

ENGLISH MONEY, WEIGHTS, AND MEASURES.

Money.

4 Farthings ..... 1 Penny.
12 Pence..... 1 Shilling.
20 Shillings ..... 1 Pound sterling *.

Reduction of Money.

Pounds.	Shillings.	Pence.	Far-things.	Pounds.	Shillings.	Pence.	Far-things.
100	2000	24000	96000	16	320	3840	15360
90	1800	21600	86400	15	300	3600	14400
80	1600	19200	76800	14	280	3360	13440
70	1400	16800	67200	13	260	3120	12480
60	1200	14400	57600	12	240	2880	11520
55	1100	13200	52800	11	220	2640	10560
54	1080	12960	51840	10	200	2400	9600
53	1060	12720	50880	9	180	2160	8640
52	1040	12480	49920	8	160	1920	7680
51	1020	12240	48960	7	140	1680	6720
50	1000	12000	48000	6	120	1440	5760
49	980	11760	47040	5	100	1200	4800
48	960	11520	46080	4	80	960	3840
47	940	11280	45120	3	60	720	2880
46	920	11040	44160	2	40	480	1920
45	900	10800	43200	1	20	240	960
44	880	10560	42240		19	228	912
43	860	10320	41280		18	216	864
42	840	10080	40320		17	204	816
41	820	9840	39360		16	192	768
40	800	9600	38400		15	180	720
39	780	9360	37440		14	168	672
38	760	9120	36480		13	156	624
37	740	8880	35520		12	144	576
36	720	8640	34560		11	132	528
35	700	8400	33600		10	120	480
34	680	8160	32640		9	108	432
33	660	7920	31680		8	96	384
32	640	7680	30720		7	84	336
31	620	7440	29760		6	72	288
30	600	7200	28800		5	60	240
29	580	6960	27840		4	48	192
28	560	6720	26880		3	36	144
27	540	6480	25920		2	24	96
26	520	6240	24960		1	12	48
25	500	6000	24000			11	44
24	480	5760	23040			10	40
23	460	5520	22080			9	36
22	440	5280	21120			8	32
21	420	5040	20160			7	28
20	400	4800	19200			6	24
19	380	4560	18240			5	20
18	360	4320	17280			4	16
17	340	4080	16320			3	12
						2	8
						1	4

* For the standard weight and value of the different English coins, see *Troy Weight.*

*Long Measure**.

12 Inches . . . . . 1 Foot.
3 Feet . . . . . 1 Yard.
5½ Yards . . . . . 1 Pole.
220 Yards . . . . . 1 Furlong.
8 Furlongs . . . . . 1 Mile.
69½ English miles . . . . . 1 Geographical degree.

Square Measure†.

144 Inches . . . . . 1 Foot.
9 Feet . . . . . 1 Yard.

Cubic Measure.

1728 Inches . . . . . 1 Foot.
27 Feet . . . . . 1 Yard.

Reduction of Lineal, Square, and Cubic Measure.

Lineal Measure.			Square Measure.			Cubic Measure.		
Yards.	Feet.	Inches.	Yards.	Feet.	Inches.	Yards.	Feet.	Inches.
1760	5280	63360	1000	9000	1296000	1000	27000	46656000
1000	3000	36000	500	4500	648000	500	13500	23328000
900	2700	32400	400	3600	518400	400	10800	18662400
800	2400	28800	300	2700	388800	300	8100	13996800
700	2100	25200	200	1800	259200	200	5400	9331200
600	1800	21600	100	900	129600	100	2700	4665600
500	1500	18000	50	450	64800	50	1350	2332800
400	1200	14400	40	360	51840	40	1080	1866240
300	900	10800	30	270	38880	30	810	1399680
200	600	7200	20	180	25920	20	540	933120
100	300	3600	10	90	12960	10	270	466560
90	270	3240	9	81	11664	9	243	419904
80	240	2880	8	72	10368	8	216	373248
70	210	2520	7	63	9072	7	189	326592
60	180	2160	6	54	7776	6	162	279936
50	150	1800	5	45	6480	5	135	233280
40	120	1440	4	36	5184	4	108	186624
30	90	1080	3	27	3888	3	81	139968
20	60	720	2	18	2592	2	54	93312
10	30	360	1	9	1296	1	27	46656
9	27	324		8	1152		26	44928
8	24	288		7	1008		24	41472
7	21	252		6	864		22	38016
6	18	216		5	720		20	34560
5	15	180		4	576		18	31104
4	12	144		3	432		16	27648
3	9	108		2	288		14	24192
2	6	72		1	144		12	20736
1	3	36					10	17280
	2	24					8	13824
	1	12					6	10368
							4	6912
							2	3456
							1	1728

* In *Cloth Measure* 2¼ inches is 1 nail; 4 nails a quarter; 4 quarters 1 yard; 5 quarters 1 ell English. Also 7·92 inches 1 link; 100 links 1 chain.

† In *Land Measure* 10 square chains, or 100000 square links is one acre; which is equal to 4 rood, or 160 square poles, or 4840 square yards.

Dry Measure.

33·6 Inches ..... 1 Pint.
8 Pints ..... 1 Gallon.
8 Gallons ..... 1 Bushel *.

Beer Measure.

$35\frac{1}{4}$ Inches ..... 1 Pint †.
8 Pints ..... 1 Gallon.
36 Gallons ..... 1 Barrel.
54 Gallons ..... 1 Hogshead.
2 Barrels ..... 1 Puncheon.

Wine Measure.

$28\frac{7}{8}$ Inches ..... 1 Pint.
8 Pints ..... 1 Gallon.
63 Gallons ..... 1 Hogshead.
2 Hogsheads ..... 1 Butt, or Pipe.
2 Pipes ..... 1 Tun.

Reduction of Dry, Beer, and Wine Measure.

Dry Measure.			Beer Measure.			Wine Measure.		
Gallons.	Pints.	Cubic Inches.	Gallons.	Pints.	Cubic Inches.	Gallons.	Pints.	Cubic Inches.
800	6400	215040	5100	40880	1438200	6300	50400	1455300
400	3200	107520	510	4080	143820	630	5040	145530
320	2560	86016	459	3672	129438	567	4536	130977
240	1920	64512	408	3264	115056	504	4032	116424
160	1280	43008	357	2856	100674	441	3528	101871
80	640	21504	306	2448	86292	378	3024	87318
72	576	19353,6	255	2040	71910	315	2520	72765
64	512	17203,2	204	1632	57528	252	2016	58212
56	448	15052,8	153	1224	43146	189	1512	43659
48	384	12902,4	102	816	28764	126	1008	29106
40	320	10752,0	51	408	14382	63	504	14553
32	256	8601,6	50	400	14100	50	400	11550
24	192	6451,2	40	320	11280	40	320	9240
16	128	4300,8	30	240	8460	30	240	6930
8	64	2150,4	20	160	5640	20	160	4620
7	56	1881,6	10	80	2820	10	80	2310
6	48	1612,8	9	72	2538	9	72	2079
5	40	1344,0	8	64	2256	8	64	1848
4	32	1075,2	7	56	1974	7	56	1617
3	24	806,4	6	48	1692	6	48	1386
2	16	537,6	5	40	1410	5	40	1155
1	8	268,8	4	32	1128	4	32	924
	7	235,2	3	24	846	3	24	693
	6	201,6	2	16	564	2	16	462
	5	168,0	1	8	282	1	8	231
	4	134,4		7	$246\frac{3}{4}$		7	$202\frac{1}{2}$
	3	100,8		6	$211\frac{1}{2}$		6	$173\frac{1}{4}$
	2	67,2		5	$176\frac{1}{4}$		5	$144\frac{3}{8}$
	1	33,6		4	141		4	$115\frac{1}{2}$
				3	$105\frac{3}{4}$		3	$86\frac{5}{8}$
				2	$70\frac{1}{2}$		2	$57\frac{3}{4}$
				1	$35\frac{1}{4}$		1	$28\frac{7}{8}$

* We have also other *Dry Measures*, as 2 gallons = 1 peck; 4 bushels = 1 coom; 2 cooms = 1 quarter; 5 quarters = 1 wey or load; 2 loads a last. Also 36 bushels = 1 chaldron of coals.

† An ale pint is to a pint beer measure as 16 to 17, and therefore contains $33\frac{3}{4}$ cube inches.

Besides these measures we have 9 gallons = 1 firkin; 2 firkins = 1 kilderkin; 3 kilderkins = 1 hogshead; 4 kilderkins = 1 puncheon; 2 hogsheads = 1 butt; and 2 butts = 1 tun.

Avoirdupois Weight.

16 Drams ..... 1 Ounce.
16 Ounces ..... 1 Pound, lb.
28 Pounds* ..... 1 Quarter.
4 Quarters ..... 1 Hundred weight, cwt.
20 Hundred weight ..... 1 Ton.

Reduction of Avoirdupois Weight.

Avoirdupois Weight					
Ton.	Cwt.	lb.	oz.	lb.	oz.
1000	20000	2240000	35840000	100	1600
900	18000	2016000	32256000	90	1440
800	16000	1792000	28672000	80	1280
700	14000	1568000	25088000	70	1120
600	12000	1344000	21504000	60	960
500	10000	1120000	17920000	55	880
400	8000	896000	14336000	50	800
300	6000	672000	10752000	45	720
200	4000	448000	7168000	40	640
100	2000	224000	3584000	39	624
90	1800	201600	3225600	38	608
80	1600	179200	2867200	37	592
70	1400	156800	2508800	36	576
60	1200	134400	2150400	35	560
50	1000	112000	1792000	34	544
40	800	89600	1433600	33	528
30	600	67200	1075200	32	512
20	400	44800	716800	31	496
10	200	22400	358400	30	480
9	180	20160	322560	29	464
8	160	17920	286720	28	448
7	140	15680	250880	27	432
6	120	13440	215040	26	416
5	100	11200	179200	25	400
4	80	8960	143360	24	384
3	60	6720	107520	23	368
2	40	4480	71680	22	352
1	20	2240	35840	21	336
	19	2128	34048	20	320
	18	2016	32256	19	304
	17	1904	30464	18	288
	16	1792	28672	17	272
	15	1680	26880	16	259
	14	1568	25088	15	240
	13	1456	23296	14	224
	12	1344	21504	13	208
	11	1232	19712	12	192
	10	1120	17920	11	176
	9	1008	16128	10	160
	8	896	14336	9	144
	7	784	12544	8	128
	6	672	10752	7	112
	5	560	8960	6	96
	4	448	7168	5	80
	3	336	5376	4	64
	2	224	3584	3	48
	1	112	1792	2	32
				1	16

* The pound Avoirdupois is to the pound Troy as 15999 to 11520.

In *Wool Weight*, 7 lb. = 1 clove; 2 cloves = 1 stone; 2 stones = 1 tod; 6½ tods = 1 wey; 2 weys = 1 sack; 12 sacks = 1 last; 56 lb. = 1 firkin of butter.

Troy Weight.*

24 Grains ..... 1 Dwt.
20 Dwt. ..... 1 Ounce.
12 Ounces ..... 1 lb.

Apothecaries Weight.

20 Grains ..... 1 Scruple.
3 Scruples ..... 1 Dram.
8 Drams ..... 1 Ounce.
12 Ounces..... 1 lb.

Reduction of Troy and Apothecaries Weight.

Troy Weight.							Apothecaries Weight.				
lb.	oz.	dwt.	gr.	oz.	dwt.	gr.	lb.	oz.	dr.	scr.	gr.
2000	24000	480000	115200000	11	220	5280	10	120	960	2880	57600
3000	36000	720000	16580000	10	200	4800	9	108	864	2592	51840
1000	12000	240000	5760000	9	180	4320	8	96	768	2304	46080
900	10800	216000	5184000	8	160	3840	7	84	672	2016	40320
800	9600	192000	4608000	7	140	3360	6	72	576	1728	34560
700	8400	168000	4032000	6	120	2880	5	60	480	1440	28800
600	7200	144000	3456000	5	100	2400	4	48	384	1152	23040
500	6000	120000	2880000	4	80	1920	3	36	288	864	17280
400	4800	96000	2304000	3	60	1440	2	24	192	576	11520
300	3600	72000	1728000	2	40	960	1	12	96	288	5760
200	2400	48000	1152000	1	20	480		11	88	264	5280
100	1200	24000	576000		19	456		10	80	240	4800
90	1080	21600	518400		18	432		9	72	216	4320
80	960	19200	460800		17	408		8	64	192	3840
70	840	16800	403200		16	384		7	56	168	3360
60	720	14400	345600		15	360		6	48	144	2880
50	600	12000	288000		14	336		5	40	120	2400
40	480	9600	230400		13	312		4	32	96	1920
30	360	7200	172800		12	288		3	24	72	1440
20	240	4800	115200		11	264		2	16	48	960
10	120	2400	57600		10	240		1	8	24	480
9	108	2160	51840		9	216			7	21	420
8	96	1920	46080		8	192			6	18	360
7	84	1680	40320		7	168			5	15	300
6	72	1440	34560		6	144			4	12	240
5	60	1200	28800		5	120			3	9	180
4	48	960	23040		4	96			2	6	120
3	36	720	17280		3	72			1	3	60
2	24	480	11520		2	48				2	40
1	12	240	5760		1	24				1	20

* Standard gold consists of 22 parts fine gold and 2 parts of copper; and standard silver contains 37 parts fine silver and 3 of copper.

Gold coin.		*Silver coin.*	
A guinea weighs	5 dwt. 9½ gr.	A crown weighs	19 dwt. 8½ gr.
A half guinea	2 16¼.	A shilling	3 21.

And all other coins in proportion to their value.

Time.

60 Seconds ..... 1 Minute.
60 Minutes ..... 1 Hour.
24 Hours ..... 1 Day.
7 Days ..... 1 Week.
365¼ Days ..... 1 Year*.

Reduction of Time.

Time.

Days.	Hours.	Minutes.	Seconds.	Hours.	Minutes.	Hours.	Minutes.
1000	24000	1440000	86400000	60	3600	30	1800
900	21600	1296000	77760000	59	3540	29	1740
800	19200	1152000	69120000	58	3480	28	1680
700	16800	1008000	60480000	57	3420	27	1620
600	14400	864000	51840000	56	3360	26	1560
500	12000	720000	43200000	55	3300	25	1500
400	9600	576000	34560000	54	3240	24	1440
365	8760	525600	31536000	53	3180	23	1380
300	7200	432000	25920000	52	3120	22	1320
200	4800	288000	17280000	51	3060	21	1260
100	2400	144000	8640000	50	3000	20	1200
90	2160	129600	7776000	49	2940	19	1140
80	1920	115200	6912000	48	2880	18	1080
70	1680	100800	6048000	47	2820	17	1020
60	1440	86400	5184000	46	2760	16	960
50	1200	72000	4320000	45	2700	15	900
40	960	57600	3456000	44	2640	14	840
30	720	43200	2592000	43	2580	13	780
20	480	28800	1728000	42	2520	12	720
10	240	14400	864000	41	2460	11	660
9	216	12960	777600	40	2400	10	600
8	192	11520	691200	39	2340	9	540
7	168	10080	604800	38	2280	8	480
6	144	8640	518400	37	2220	7	420
5	120	7200	432000	36	2160	6	360
4	96	5760	345600	35	2100	5	300
3	72	4320	259200	34	2040	4	240
2	48	2880	172800	33	1980	3	180
1	24	1440	86400	32	1920	2	120
				31	1860	1	60

* The true sidereal year is 365 days, 6 hours, 9 minutes, 11″·5. But the tropical year, by which we regulate our calendar, is only 365 days, 5 hours, 48 minutes, 51″·6.

FRENCH WEIGHTS AND MEASURES.

French Measures, Old System.

A point is	·0148025 English inches, or nearly $\frac{1}{135}$.
A line	·088815, or nearly $\frac{1}{12}$.
An inch, or pouce	1·06578, or $\frac{1}{9\frac{3}{8}\frac{3}{3}}$, or $\frac{8}{75}$.
A foot	12·78933.
An ell, or aune	46·8947, or 44 French inches, or according to Vega, 45·9.
A sonde	63·9967, or 5 French feet, about $\frac{3}{4}$ English fathom.
A toise, or fathom	76·7360, or 6 French feet; formerly 76·71. Phil. Trans. for 1742.
A perche	230·2080, or 18 French feet.
A perche, mesure royale	22 French feet.
A league	2282 toises, or $\frac{1}{25}$ of a degree.
A square inch	1·13582 English square inches.
An arpent	100 square perches, about $\frac{5}{6}$ acre English, used near Paris.
An arpent mesure royale	about $1\frac{1}{4}$ English acre.
A cubic inch	1·21063 cubic inches.
A litron	65·34.
A boisseau	1045·44, or 16 litrons.
A minot	2090·875, or 3 boisseaux, nearly an English bushel.
A mine	4181·75, or 2 minots.
A septier	8363·5, or 2 mines, or 6912 inches French, double for oats.
A muid	100362, or 12 septiers.

N. B. A ton of shipping contains 42 cubic feet. The aune or ell of Paris varies, being for silk stuffs 527·5 lines, or $46\frac{17}{20}$ English inches; for woollens 526·4 French lines, or $46\frac{3}{4}$ English inches; for linens 524 French lines, or $46\frac{11}{20}$ English inches; and it varies still more in other parts of France. The perch, which determines the measure of the acre, varies in different parts of the country; but the arpent of woodland is every where the same, the perch being 22 feet long, and this arpent contains 48400 French square feet, or 6108 English square yards, or one acre, one rood, one perch. The arpent for cultivated land in the vicinity of Paris contains 900 square toises, or 4088 English yards; so that 43 such arpents are equal to 38 English acres nearly.

French Measures, New System.

MEASURES OF LENGTH.

	English inches.
Millimetre	·039371.
Centimetre	·39371.
Decimetre	3·93710
Metre	39·37100, or 3·281 feet, or 1·09364 yards, or nearly 1 yard. $1\frac{1}{2}$ nail, or 443·2959 French lines, or ·513074 toises.
Decametre	393·71000, or 10 yards, 2 feet, 9·7 inches.
Hecatometre	3937·10000, or 100 yards, 1 foot, 1 inch.
Chiliometre	39371·00000, or 4 furlongs, 213 yards, 1 foot, 10·2 inches: so that 8 chiliometres are nearly 5 miles.
Myriometre	393710·0000, or 6 miles, 1 furlong, 136 yards, 6 inches.

N. B. An inch = ·0354 metres; 2441 inches = 62 metres; 10000 feet = 305 metres nearly.

SUPERFICIAL OR SQUARE MEASURE.

Are = a square decametre =	3·95 English perches, or 119·6046 square yards.
Decare	1196·0460 square yards.
Hecatare	11960·4600 square yards, or 2 acres, 1 rood, 35·4 perches.

MEASURES OF CAPACITY.

	Cubic inches, English.
Millilitre	·06103.
Centilitre	·61028.
Decilitre	6·10280.
Litre, a cubic decimetre	61·02800, or 2·113 wine pints.
Decalitre	610·28000, or 2·64 wine gallons.
Hecatolitre	6102·80000, or 3·5317 cubic feet, or 26·4 wine gallons.
Chiliolitre	61028·00000, or 35·3170 cubic feet, or 1 tun, 12 wine gallons.
Myriolitre	610280·00000, or 353·1700 cubic feet.

SOLID MEASURE.

	Cubic feet English.
Decistre for fire wood	3·5317.
Stere, a cubic metre	35·3170.
Decastre	353·1700.

N. B. In order to express decimal proportions in this new system, the following terms have been adopted. The term *deca* prefixed denotes 10 times; *heca* 100 times; *chilio* 1000 times; and *myrio* 10,000 times. On the other hand, *deci* expresses the 10th part; *centi* the 100th part; and *milli* the 1000th part: so that *decametre* signifies 10 metres; and *decimetre* the 10th part of a metre, &c. &c. The *metre* is the element of long measures; *are* that of square measures; *stere* that of solid measures: the *litre* is the element of all measures of capacity; and the *gramme*, which is the weight of a cubic centimetre of distilled water, is the element for all weights.

French Weights, Old System.

72 grains = 1 gros = $59\frac{1}{128}$ English grains Troy.
8 gros = 1 ounce = $472\frac{9}{16}$ English grains Troy.
16 ounces = 1 pound = 7561 English grains Troy.

Sometimes the gros is divided into 3 deniers, and each denier into 24 grains.

French Weights, New System.

	English Troy grains.
Milligramme	·01544.
Centigramme	·15445.
Decigramme	1·54457.
Gramme	15·44579.
Decagramme	154·45793.
Hecatogramme	1544·57938.
Chiliogramme	15445·79386.
Myriogramme	154457·93860.

A decagramme is 6 dwt. 10·45 grains Troy, or 2 dr. 1 scr. 14·45 grains Apothecaries weight, or 5·648 dr. Avoirdupois.

The hecatogramme = 3 oz. 8·48 dr. Avoirdupois.
The chiliogramme = 2 lb. 3 oz. 4·87 dr. Avoirdupois.
The myriogramme = 22 lb. 1 oz. 0·73 dr. Avoirdupois.

Foreign measures compared with English feet.		Number of each equal to 100 English feet.	Length of a single measure of each sort.
			Eng. inches.
Aix la Chapelle ...	Feet	105·18	11·41
Amsterdam	ditto	107·62	11·15
Anspach	ditto	102·38	11·72
Ancona	ditto	78·02	15·38
Antwerp	ditto	106·76	11·24
Aquileia	ditto	88·69	13·53
Augsburg	ditto	103·	11·65
Basil	ditto	102·22	11·74
Bavaria	ditto	105·08	11·42
Bergamo	ditto	69·89	17·17
Berlin	ditto	98·44	12·19
Bern	ditto	103·98	11·54
Bologna	ditto	80·05	14·99
Bremen	ditto	105·45	11·38
Brescia	Bracci	64·10	18·72
Breslaw	Feet	107·24	11·19
Brunswick	ditto	106·85	11·23
Brussels	ditto	104·80	11·45
Cagliari	Palmi	150·52	7·97
Calemberg	Feet	104·34	11·50
Carrara	Palmi	125	9·60
Chamberry	Feet	90·36	13·28
China	Mathematical feet	91·46	13·12
Cleves	Feet	103·18	11·63
Cologne	ditto	110·80	10·83
Copenhagen	Legal feet	97·17	12·35
Dantzic	Feet	106·28	11·29
	Ruthes	7·08	169·35
Dordrecht	Feet	84·74	14·16
Dresden	ditto	107·62	11·14
Embden	ditto	102·92	11·66
England	ditto	100	12
Ferrara	ditto	75·95	15·80
Florence	Builders bracci	55·55	21·60
France	Pieds de Roi	93·89	12·78
	Toises	15·65	76·68
	Metres	30·48	39·37
Francfort	Feet	106·48	11·27
Geneva	ditto	62·50	19·20
Genoa	Palmi	123·45	9·72
Gottingen	Feet	104·80	11·45
Gotha	ditto	106	11·32
Groningen	ditto	104·44	11·49
Hamburgh	ditto	106·28	11·29
	Rhineland feet	97·17	12·35
Hanover	Feet	104·80	11·45
Harlem	ditto	106·67	11·25
Heidelberg	ditto	109·48	10·96
Hildesheim	ditto	108·60	11·05
Inspruck	ditto	96·	12·50
Konigsberg	ditto	99·09	12·11
Leipsic	Common feet	108·01	11·11
	Builders ditto	107·81	11·13
Leyden	ditto	97·24	12·34
Liege	ditto	106	11·32
Lindau	Common feet	105·26	11·40

Foreign measures compared with English feet.		Number of each equal to 100 English feet.	Length of a single measure of each sort.
			Eng. inches.
Lindau	Long feet	96·77	12·40
Lisbon	Feet	92·78	12·96
Lorraine	ditto	106·20	11·30
Lubec	ditto	104·80	11·45
Luneburg	ditto	104·80	11·45
Magdeburg	ditto	107·52	11·16
Malta	ditto	107·43	11·17
Manheim	ditto	105·39	11·41
Mantua	Bracci	65·75	18·25
Mastricht	Feet	108·60	11·05
Mentz	ditto	101·26	11·85
Middleburg	ditto	101·61	11·81
Milan	ditto	76·82	15·62
Monaco	ditto	129·73	9·25
Moscow	ditto	91·12	13·17
Naples	Palmi	115·62	10·38
Neufchatel	Feet	101·61	11·81
Nuremberg	ditto	100·34	11·96
Oldenburg	ditto	103	11·65
Osnaburg	ditto	109·09	11
Padua	ditto	86·15	13·93
Palermo	Palmi	125·93	9·53
Parma	Surveyors bracci	56·23	21·34
Pavia	ditto	65·57	18·30
Persia	Arish	31·36	38·27
Pomerania	Feet	104·34	11·50
Prague	ditto	101	11·88
Ratzburg	ditto	104·80	11·45
Revel	ditto	113·96	10·53
Reggio	Bracci	57·55	20·85
Rhineland	Feet	97·17	12·35
Riga	ditto	111·21	10·79
Rimini	Bracci	56·10	21·39
Rome	Feet	103·45	11·60
Rostock	ditto	105·45	11·38
Russia	ditto	87·27	13·75
Sardinia	Palmi	122·70	9·78
Sienna	Feet	80·75	14·86
Silesia	Ruthes	7·06	170
Spain	Feet	107·91	11·12
Stade	ditto	104·80	11·45
Stettin	ditto	107·91	11·12
Strasburg	ditto	105·39	11·39
Sweden	ditto	102·66	11·69
Trent	ditto	83·28	14·41
Turin	ditto	94·34	12·72
Ulm	ditto	105·35	11·39
Utrecht	ditto	111·82	10·74
Venice	ditto	87·72	13·40
Verona	ditto	89·55	13·68
Vicenza	ditto	88·04	13·63
Vienna	ditto	96·39	12·45
Warsaw	ditto	85·53	14·03
Wismar	ditto	103·63	11·58
Wurtemberg	ditto	104·80	11·45
Ziriczee	ditto	98·28	12·21
Zurich	ditto	101·60	11·81

Foreign measures compared with English miles.		Number of each equal to 100 English miles.	Length of a single measure of each sort.
			Eng. yards.
Arabia	Miles	81·93	2148
Bohemia	ditto	17·36	10137
Brabant	ditto	28·93	6082
Burgundy	ditto	28·46	6183
China	Lis	279·80	629
Denmark	Miles	21·35	8244
England	ditto	100	1760
	ditto, geographical	86·91	2025
Flanders	Miles	25·62	6869
France	Leagues, astronomical	36·21	4860
	ditto, marine	28·97	6075
	ditto, legal, of 2000 toises	41·28	4263
Germany	Miles, geographical	21·72	8101
	ditto, long	17·38	10126
	ditto, short	25·66	6859
Hamburgh	Miles	21·35	8244
Hanover	ditto	15·23	11559
Hesse	ditto	16·68	10547
Holland	ditto	27·52	6395
Hungary	ditto	19·31	9113
Ireland	ditto	57·93	3038
Italy	ditto	86·91	2025
Lithuania	ditto	18	9781
Oldenburg	ditto	16·26	10820
Poland	ditto, short	28·97	6075
	ditto, long	21·72	8101
Portugal	Legoas	26·03	6760
Prussia	Miles	20·78	8468
Rome	Ancient miles of 8 stadia	109·18	1612
	Modern miles	86·91	2025
Russia	Versts	150·81	1167
Saxony	Miles	17·76	9905
Scotland	ditto	88·70	1984
Silesia	ditto	27·67	7083
Spain	Laguas common, of 8000 varas	23·73	7416
	ditto legal, of 5000 varas	37·97	4635
Swabia	Miles	17·38	10126
Sweden	ditto	15·04	11700
Switzerland	ditto	19·23	9153
Turkey	Berries	96·38	1826
Westphalia	Miles	14·56	12151

Square Measure.

	English square inches.
A square foot of Amsterdam contains	124·32
Antwerp	126·34
Berlin	148·59
Bern	133·23
Bologna	224·70
Bremen	129·50
Denmark, or Rhineland	152·52
Dantzic	127·46
Dresden	124·10
England	144·00
France	163·32
Hamburgh	127·46
Hanover	131·10
Konigsberg	146·65
Leipsic	123·43
Lisbon	167·96
Milan	243·98
Nuremberg	143·04
Osnaburg	121·00
Rome	134·56
Spain	123·65
Sweden	136·65
Turin	161·80
Venice	187·13
Vienna	155·00
Zurich	139·42
A French square metre	1550·00

Cubic Measure.

	English cubic inches.
A cubic foot of Amsterdam contains	1386·20
Antwerp	1420·03
Berlin	1811·39
Bern	1536·80
Bologna	3368·25
Bremen	1473·76
Denmark, or Rhineland	1883·65
Dantzic	1439·07
Dresden	1382·50
England	1728·00
France	2087·34
Hamburgh	1439·07
Hanover	1501·12
Konigsberg	1775·96
Leipsic	1371·33
Lisbon	2177·80
Milan	3812·98
Nuremberg	1710·76
Osnaburg	1331·00
Rome	1560 90
Spain	1375·04
Sweden	1597·52
Turin	2058 07
Venice	2560·10
Vienna	1929·78
Zurich	1647·20
A French cubic metre	61023·50

The pound of different nations.	Corresponding number of English grains Troy.	English Troy weight. lb.	oz.	dwt.	grs.
The pound of Aleppo	30984·86	5	4	11	0·86
Alexandria in Egypt	6158·74	1	0	16	14·74
Alicant	6908·58	1	2	7	20·58
Amsterdam	7460·71	1	3	10	20·71
Antwerp and the Netherlands	7048·15	1	2	15	4·15
Avignon	6216·99	1	0	19	0·99
Basle	7713·31	1	4	1	9·31
Bayonne	7460·71	1	3	10	20·71
Bergamo	4663·97	0	9	14	7·97
	11659·52	2	0	5	19·52
Bergen	7833·17	1	4	6	9·17
Berne	6721·53	1	2	0	1·53
Bilboa	7460·71	1	3	10	20·71
Bois-le-Duc	7105·48	1	2	16	1·48
Bordeaux, see Bayonne					
Bourg	7073·57	1	2	14	17·57
Brescia	4496·61	0	9	7	8·61
Cadiz	7038·21	1	2	13	6·21
China (the kin)	9222·93	1	7	4	6·93
Cologne	7220·34	1	3	0	20·34
Constantinople	7578·03	1	3	15	18·03
Copenhagen	6940·58	1	2	9	4·58
Damascus	25612·88	4	5	7	4·88
Dantzic	6573·86	1	1	13	21·86
Dublin	7774·11	1	3	19	18·11
Florence	5286·65	0	11	0	6·65
Genoa	4426·05	0	9	4	10·05
	6637·85	1	1	16	3·85
Geneva	8407·45	1	5	10	7·45
Hamburgh	7314·68	1	3	4	18·68
Konigsberg	5968·41	1	0	8	16·41
Leghorn	5145·54	0	10	14	9·54
Leyden	7038·21	1	2	13	6·21
Liege	7089·07	1	2	15	9·07
Lisle	6544·33	1	1	12	16·33
Lisbon	7005·39	1	2	11	21·39
Lucca	5272·71	0	10	19	16·71
Lyons (silk weight)	6946·32	1	2	9	10·32
Lyons (town weight)	6431·93	1	1	7	23·93
Madrid	6544·33	1	1	12	16·33
Malo, St. see Bayonne					
Marseilles	6041·42	1	0	11	17·42
Mechlin, see Antwerp					
Messina	4844·46	0	10	1	20·46
Montpellier	6217·81	1	0	19	1·81
Namur	7174·39	1	2	18	22·39
Nancy	7038·21	1	2	13	6·21
Nantes, see Bayonne					
Naples	4951·93	0	10	6	7·93
Nuremberg	7870·91	1	4	7	22·91
Paris	7560·80	1	3	15	0·8
Pisa, see Florence					
Revel	6573·86	1	1	13	21·86
Riga	6148·89	1	0	16	4·89
Rome	5257·12	0	10	19	1·12
Rouen	7771·64	1	4	3	19·64

The pound of different nations.	Corresponding number of English grains Troy.	English Troy weight.			
		lb.	oz.	dwt.	grs.
The pound of Saragossa	4707·45	0	9	16	3·45
Seville	7038·21	1	2	13	6·21
Smyrna	6544·33	1	1	12	16·33
Stettin	6782·24	1	2	2	14·24
Stockholm	9211·45	1	7	3	19·45
Strasburg	7276·94	1	3	3	4·94
Toulouse, and Languedoc	6322·82	1	1	3	10·82
Turin, and all Piedmont	4939·62	0	10	5	19·02
Tunis and Tripoli	7139·94	1	2	17	11·94
Venice { greater pound	4215·21	0	8	15	15·21
Venice { lesser pound	6826·54	1	2	4	10·54
Verona	5374·44	0	11	3	22·44
Vicenza {	4676·28	0	9	14	20·28
Vicenza {	6879·05	1	2	6	15·05

Note. To convert the above Troy grains into English Avoirdupois pounds, divide by 7000.

TABLE X.

SPECIFIC GRAVITY OF BODIES.

SPECIFIC GRAVITY OF BODIES.

Mineral Productions, Solids.

Platina, putrified	19·5000
hammered	20·3366
wire	21·0417
laminated	22·0690
Pure gold, cast	19·2581
hammered	19·3617
Gold, 22 carats fine, of the standards of London and of Paris, cast	17·4863
hammered	17·5894
French trinket gold, 20 carats fine, cast	15·7090
hammered	15·7946
French gold coin, 21$\frac{11}{12}$ carats fine, cast	17·4022
coined	17·6474
Mercury	13·5681
Lead, cast	11·3523
litharge	6·30
Pure silver, cast	10·4742
hammered	10·5107
Parisian silver, 11 den. 10 gr. fine, cast	10·1753
hammered	10·3765
French silver coin, 10 den. 21 gr. fine, cast	10·0476
hammered	10·4077
Bismuth, cast	9·8227
Copper, cast	8·7880
wire	8·8785
Brass, cast	8·3958
wire	8·5441
Cobalt, cast	7·8119
Nickel, cast	7·8070
Iron, cast	7·2070
bar	7·7880
steel, hard, not screwed	7·8163
screwed	7·8180
soft, not screwed	7·8331
screwed	7·8404
Loadstone	4·80
Haematite	4·20
Tin, cast	7·2914
screwed	7·2994
Zinc, cast	7·1908
Antimony, cast	6·7021
glass of	4·9464
crude	4·0643
Tungstein	6·0665
Arsenic, cast	7·7633
Molybdena	4·7385
Ponderous spar	4·4300
Jargon of Ceylon	4·4161
Oriental ruby	4·2835
Spinelle ruby	3·7600
Ballas ruby	3·6458
Brasilian ruby	3·5311
Pseudo topaz	4·27
Bohemian garnet	4·1881
Syrian garnet	4·0000
Sapphire of Puy	4·0760
Oriental sapphire	3·9941
Sapphire of Brasil	3·1307
Oriental topaz	4·0106
Saxon topaz	3·5640
Brasilian topaz	3·5565
Emery	4·00
Hyacinth	3·6873
Beryl, or oriental aquamarine	3·5489
Occidental aquamarine	2·722
Diamond, rose coloured	3·5310
white	3·5212
lightest	3·501
Manganese, crude	3·53
Black schorl, crystallized	3·3852
amorphuous	2·9225
Flint glass	2933·3
white glass	2·8922
bottle glass	2·7325
green glass	2·6423
glass of St. Gobin	2·4882
Fluor, red	3·1911
green	3·1817
violet	3·1757
blue	3·1688
white	3·1555
Black and white hone	3·1311
white hone	2·8763
Granitello	3·0626
Green serpentine of Dauphine	2·9883
serpentine	2·8960
Ophite	2·9722
Green jade	2·9660
White jade	2·9502
Black mica	2·9004
Basaltes, from the Giants Causeway	2·8642
from Auvergne	2·4153
White Parian marble	2·8376
Green marble	2·7417
Red marble	2·7242
White marble of Carrari	2·7168
Jasponyx	2·8160
Chrysolith	2·7821
of Brazil	2·6923
Peruvian emerald	2·7755
Red porphyry	2·7651
Jasper, grey	2·7640
violet	2·7111
yellow	2·7101
brown	2·6911
red	2·6612
White antique alabaster	2·7302
Rhombic calcareous spar	2·7151
Pyramidal calcareous spar	2·7141

Slate	2·6718
Pitchstone, red	2·6695
blackish	2·3191
yellow	2·0860
black	2·0499
Onyx pebble	2·6644
Transparent chalcedony	2·6640
Red Egyptian granite	2·6541
Pure rock crystal	2·6530
Amorphous quartz	2·6471
Agate onyx	2·6375
Cornelian	2·6137
Sardonyx	2·6021
Purbeck stone	2·601
White flint	2·5941
Blackish flint	2·5817
Oriental agate	2·5901
Prase	2·5805
Portland stone	2·570
Whetstone of Auvergne	2·5638
Red zeolith	2·4868
crystallized zeolith	2·0833
Mill stone	2·4835
Paving stone	2·4158
Touch stone	2·4153
Chinese porcelain	2·3847
Porcelain of Limoges	2·3410
of Seves	2·1457
Lapis obsidianus	2·3480
Selenite	3·222
Sulphate of potash	2·250
of soda	2·200
Grindstone	2·1429
Salt	2·130
Native sulphur	2·0332
Melted sulphur	1·9907
Transparent sulphur	1·950
Nitre	2·000
Brick	2·000
Alabaster	1·874
Plumbago	1·86
Sulphate of zinc	1·850
Alum	1·725
Borax	1·718
Sulphate of iron	1·700
Asphaltum	1·400
Scotch coal	1·300
Newcastle coal	1·270
Staffordshire coal	1·240
Jet	1·238
Ice, probably,	·930
Pumice stone	·9145

Liquids.

Sulphuric acid	1·8409
Ph. Lond.	1·850
Nitrous acid, Ph. Lond.	1·550
Nitrous acid	1·2175
Solution of salt	1·244
Water 27, salt 10	1·240
Water 3, salt 1	1·217
Water 12, salt 1	1·060
Water of the Dead sea	1·2403
Sea water	1·0263
Solution of caustic soda	1·200
Muriatic acid	1·1940
Water of the Seine, filtered	1·0015
Naphtha	·708

Substances partly Mineral, Solids.

Acetite of lead	2·700
Tartrite of antimony	2·100
Muriate of ammonia	1·400

Liquids.

Sulphuric ether	·7394
Nitric ether	·9088
Muriatic ether	·7298

Elastic Fluids.

	Kirwan. Barometer 30°. Thermometer 52°.	Lavoisier.
Sulphurous acid gas	2·265	
Carbonic acid gas	1·500	·00176
Nitrous gas	1·194	
Hepatic gas	1·106	
Oxygen gas	1·103	·00137
Atmospheric air	1·000	·00128
Nitrogen gas	·985	·00120
Ammoniacal gas	·600	·000096
Hydrogen gas	·084	

Vegetable Productions.

Crystals of tartar	1·850
Extract of liquorice	1·7228
Opopanax	1·6226
White sugar	1·606
Solution of potash	1·570
Gum arabic	1·4523
Honey	1·450
Catechu	1·3980
Aloes, socotrine	1·3795
hepatic	1·3586
Bdellium	1·3717
Myrrh	1·3600
Pomegranate tree	1·3540
Cocoa shell	1·345
Opium	1·3366
Lignum vitæ	1·3330
Box, Dutch	1·328
French	·912
Assafœtida	1·3275
Tragacynth	1·3161
Ivy gum	1·2948
Scammony from Smyrna	1·2743
Aleppo	1·2354
Sarcocolla	1·2684
Myrrh	1·250
Guaiacum	1·2289
Gamboge	1·2201
Resin of jalap	1·2185
Galbanum	1·2120
Gum ammoniac	1·2071
Dragon's blood	1·2045

Sapapenum	1·2008
Lignum nephriticum	1·200
Ebony	1·77
Olibanum	1·1732
Heart of oak, 60 years old	1·1700
Dry oak	·932
Pitch	1·150
Copal, opaque	1·1398
transparent	1·0452
Euphorbium	1·1244
Storax	1·1098
Oil of sassafrax	1·094
Benzoin	1·0924
Sandarac	1·0920
Yellow amber	1·0780
Mastic	1·0742
Yellow resin	1·0727
Frankincense	1·071
Mahogany	1·063
Acetic acid	1·0626
Oil of cinnamon	1·0439
Anime occidental	1·0426
oriental	1·0284
Malmsey madeira	1·0382
Oil of cloves	1·0363
Gall nuts	1·034
Elms	1·0182
Cyder	1·0181
Distilled vinegar	1·0095
Water at 60	1·0000
Bourdeaux wine	·9939
Burgundy wine	·9915
Liquid turpentine	·9910
Camphor	·9887
Oil of mint	·975
Oil of nutmeg	·948
Medlar tree	·9440
Linseed oil	·9403
Oil of carraway	·940
Oil of marjoram	·940
Oil of spike	·936
Oil of rosemary	·934
Elastic gum	·9335
Oil of poppy seed	·9288
Olive wood	·9270
Oil of beech mast	·9177
Oil of almonds	·9106
Olive oil	·9153
Logwood	·913
Rape oil	·913
Balsam of tolu	·896
Oil of lavendar	·8938
Oil of oranges	·888
Essential oil of turpentine	·8697
Acetic ether	·8664
Beech	·8520
Ash	·8450
Yew Spanish	·8070
Dutch	·7880
Alder	·8000
Elm	·800
to	·600
Apple tree	·7930
Plum tree	·7550
to	·663
Indigo	·7690
Maple	·7550
Cherry tree	·7150
Quince tree	·7050
Orange tree	·7050
Walnut	·7610
Pear tree	·6610
Fir, yellow	·675
white	·569
Male fir	·5500
Female fir	·4980
Cypress	·6440
Lime tree	·6040
Filbert wood	·6000
Arnotto	·5965
Willow	·5850
Cedar	·5608
Juniper wood	·556
White Spanish poplar	·5294
Poplar	·3830
Sassafras wood	·482
Cork	·2400

Animal Substances.

Pearl	2·750
Coral	2·680
Sheep's bone, recent	2·222
Oyster-shell	2·092
Ivory	1·917
Stag's horn	1·875
Ox's horn	1·840
Blade-bone of an ox	1·656
Lac	1·1390
Isinglass	1·111
Egg of a hen	1·090
Human blood	1·053
Blood, buff coat	1·056
serum	1·056
red globules	1·028
Ewe's milk	1·0405
Ass's milk	1·0355
Mare's milk	1·0346
Goat's milk	1·0341
Cow's milk	1·0324
Woman's milk	1·0203
Whey of cow's milk	1·0193
Wax, white	·9686
yellow	·9648
Lard	·9478
Spermaceti	·9433
Butter	·9423
Tallow	·9419
Fat of hogs	·9368
veal	·9342
mutton	·9235
beef	·9232
Ambergrease	·9263
Lamp oil	·9233
Solution of pure ammonia	·8970

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